

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Barrows Run		
TMDL Group ID:	60074		
VAN-E02R_BRW01A06	Barrows Run	FAUQUIER CO	Segment begins at the headwaters of Barrows Run and continues downstream until the confluence with the Rappahannock River.
VA Overall AU Category: 5A	Impairment	4.93 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60074 2006 2018	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 5 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-BRW000.29) at Spring Drive to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Bay Segment RPPTF		
TMDL Group ID:	60127		
VAN-E20E_RPP01A02	Rappahannock River	SPOTSYLVANIA CO STAFFORD CO	Segment begins at the confluence with Massaponax Creek and continues downstream until the outlet of waterbody VAN-E20E. This segment represents the upper reach of VAN-E21E_RPP05A02. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	0.19 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	Aquatic Plants (Macrophytes)	60127 2006 2010	
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	60127 2006 2010	
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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TMDL Watershed Name:	Bay Segment RPPTF		
TMDL Group ID:	60127		
VAN-E20E_RPP02A02	Rappahannock River	SPOTSYLVANIA CO STAFFORD CO	Segment begins at the confluence with Deep Run and continues downstream until the confluence with Massaponax Creek. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	0.23 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	60127 2006 2010	
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	60127 2006 2010	
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Rappahannock River Basin			
TMDL Watershed Name:	Bay Segment RPPTF		
TMDL Group ID:	60127		
VAN-E20E_RPP03A02	Rappahannock River	FREDERICKSBURG CITY STAFFORD CO	Segment begins at the fall line at Route One and continues downstream until the confluence with Deep Run. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	0.21 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	60127	2006 2010
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	60127	2006 2010
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Rappahannock River Basin			
TMDL Watershed Name:	Bay Segment RPPTF		
TMDL Group ID:	60127		
VAN-E21E_MIC01A06	Mill Creek	CAROLINE CO	Segment includes all tidal waters of Mill Creek. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	0.21 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	60127 2006 2010	
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	60127 2006 2010	
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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Rappahannock River Basin			
TMDL Watershed Name:	Bay Segment RPPTF		
TMDL Group ID:	60127		
VAN-E21E_RPP01A02	Rappahannock River	CAROLINE CO KING GEORGE CO	Segment begins at the confluence with Mill Creek, at rivermile 78.94, and continues downstream until immediately upstream of Devils Elbow, at rivermile 70.52. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	4.50 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	Aquatic Plants (Macrophytes)	60127 2006 2010	
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	60127 2006 2010	
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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Rappahannock River Basin			
TMDL Watershed Name:	Bay Segment RPPTF		
TMDL Group ID:	60127		
VAN-E21E_RPP03A02	Rappahannock River	CAROLINE CO KING GEORGE CO	Segment begins at the confluence with Mount Creek and continues downstream until the confluence with Mill Creek. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	1.36 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	60127 2006 2010	
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	60127 2006 2010	
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Rappahannock River Basin			
TMDL Watershed Name:	Bay Segment RPPTF		
TMDL Group ID:	60127		
VAN-E21E_RPP04A02	Rappahannock River	CAROLINE CO KING GEORGE CO	Segment begins at the confluence with Ware Creek and continues downstream until the confluence with Mount Creek. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	1.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	60127	2006 2010
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	60127	2006 2010
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Rappahannock River Basin			
TMDL Watershed Name:	Bay Segment RPPTF		
TMDL Group ID:	60127		
VAN-E21E_RPP05A02	Rappahannock River	CAROLINE CO STAFFORD CO	Segment begins at the confluence with Massaponax Creek and continues downstream until the confluence with Ware Creek. The upper reach of this segment (approx. 0.3 sq mi) extends into waterbody VAN-E20E. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	0.57 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	Aquatic Plants (Macrophytes)	60127 2006 2010	
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	60127 2006 2010	
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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Rappahannock River Basin			
TMDL Watershed Name:	Bay Segment RPPTF		
TMDL Group ID:	60127		
VAN-E21E_RPP20A02	Ware Creek/Rappahannock River	CAROLINE CO KING GEORGE CO	Segment includes all tidal waters in watershed not included in other delineated stream segments. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	2.37 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	60127	2006 2010
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	60127	2006 2010
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Beautiful Run		
TMDL Group ID:	60083		
VAN-E13R_BFL01A04	Beautiful Run	MADISON CO	Segment begins at the confluence of an unnamed tributary, upstream from Route 620, and continues downstream until the confluence with the Rapidan River.
VA Overall AU Category: 5A	Impairment	1.08 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60083	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 5 samples - 80.0%) were recorded at DEQ's ambient water quality monitoring station (3-BFL000.90) at the Route 620 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown	
Recreation	Fecal Coliform	60083	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 7 samples - 42.8%) were recorded at DEQ's ambient water quality monitoring station (3-BFL000.90) at the Route 620 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown	
Bells Creek			
TMDL Watershed Name:	Bells Creek		
TMDL Group ID:	01069		
VAP-E26E_BES01A98	Bells Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-058B, 4/21/2004.
			Size adjusted in 2006, although area did not change
			CRRMH
VA Overall AU Category: 5A	Impairment	0.05 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01069	1998 2010 VAP-E26E-15
		Sources: Source Unknown	VDH shellfish condemnation 021-058B, 4/21/2004

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Belwood Swamp		
TMDL Group ID:	01097		
VAP-E26E_BLD01A98	Belwood Swamp	LANCASTER CO	Tidal limit to its mouth at the Western Branch Corrotoman River. Previously called riverine CRRMH
VA Overall AU Category: 5A	Impairment	0.01 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Recreation	Fecal Coliform	01097	2002
			2014
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E26E-27 (see 2004 fact sheet VAP-E26R-01)
			The segment was initially assessed in 1998 as fully supporting but threatened of the Recreation Use based on violations of the fecal coliform standard at monitoring station 3-BLD000.58, located at the Route 3 bridge. During the year 2002 cycle, the segment was downgraded to impaired. During the 2004 cycle, the segment continued to be impaired (see 2004 fact sheet VAP-E26R-01).
			However, in the 2006 cycle, it was determined that the station is tidally influenced and had been mistakenly considered riverine. The station remains impaired for fecal coliform. The fact sheet and AU were renamed. The TMDL is due in 2014.
			Sources: Source Unknown
TMDL Watershed Name:	Black Swamp		
TMDL Group ID:	10105		
VAP-E23R_BLA01A06	Black Swamp	WESTMORELAND CO	Black Swamp from its headwaters downstream to Chandlers Millpond
VA Overall AU Category: 5C	Impairment	4.31 MILES	TMDL Group ID
Use			First Listed on 303(d)
Aquatic Life	Oxygen, Dissolved	10105	2006
			2018
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E23R-14
			During the 2006 cycle, Black Swamp was assessed as not supporting the Aquatic Life Use based on a dissolved oxygen violation rate of 6/15 at 3-BLA002.31.
			This segment is nested within VAP-E23R-01.
			Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Black Walnut Run		
TMDL Group ID:	60095		
VAN-E17R_BWR01A06	Black Walnut Run	ORANGE CO	Segment begins at the Route 621 crossing and continues downstream until the confluence with Mine Run.
VA Overall AU Category: 5A	Impairment	6.45 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60095	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 15 samples - 33.3%) were recorded at DEQ's ambient water quality monitoring station (3-BWR004.13) at the Route 602 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
TMDL Watershed Name:	Blue Run		
TMDL Group ID:	00319		
VAN-E13R_BLU01A00	Blue Run	ORANGE CO	Segment begins at the confluence with Barbour Run, approximately 0.13 rivermile upstream of the Southern Rail Road bridge, and continues downstream until the confluence with the Rapidan River.
VA Overall AU Category: 5A	Impairment	4.21 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00319	2006 2010 Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 6 samples - 50.0%) were recorded at DEQ's ambient water quality monitoring station (3-BLU002.60) at the Route 20 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.
Sources: Source Unknown			
Recreation	Fecal Coliform	00319	2002 2010 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (7 of 20 samples - 35.0%) were recorded at DEQ's ambient water quality monitoring station (3-BLU002.60) at the Route 20 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
VAN-E13R_BLU02A04	Blue Run	ALBEMARLE CO ORANGE CO	Segment begins at the headwaters of Blue Run and continues downstream until the confluence with Barbour Run.
VA Overall AU Category: 5A	Impairment	7.40 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	00319	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 5 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-BLU006.44), at the bridge for an unnamed road through Tibbstown, to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Bookers Mill Stream		
TMDL Group ID:	01054		
VAP-E24R_BMS01A98	Bookers Mill Stream	RICHMOND CO	Bookers Mill Stream in its entirety.
VA Overall AU Category: 5A	Impairment	6.22 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01054 2002 2014	VAP-E24R-01
Sources: Source Unknown			Bookers Mill Stream was assessed not supporting of the Recreation Use support goal in 2004 based on a fecal coliform violation rate of 4/19 recorded at the Route 612 bridge (3-BMS002.00). Monitoring was discontinued in 2001.
TMDL Watershed Name:	Broad Creek		
TMDL Group ID:	01071		
VAP-E26E_BRD02A00	Broad Creek	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038A, 12/30/2004.
			RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01071 1998 2010	VAP-E26E-21
Sources: Industrial Point Source Discharge Municipal Point Source Discharges Source Unknown			VDH shellfish condemnation 033-038A, 12/30/2004

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Broad Creek		
TMDL Group ID:	10083		
VAP-E26E_BRD01A00	Broad Creek	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038B, 12/30/2004. RPPMH
VA Overall AU Category: 5A	Impairment	0.08 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Enterococcus	10083 2006 2018	VAP-E26E-20 Broad Creek was considered fully supporting but threatened of the Recreation Use in 1998 due to BPJ (6 dischargers into embayment), but there were acceptable FC violation rates at station 3-BRD000.62 in both the 2002 and 2004 cycles, so it was dropped in 2004. In the 2006 cycle, the fecal coliform violation rate remained acceptable (0/23), however the enterococci violation rate failed (2/9), therefore the segment is considered impaired of the Recreation Use. The TMDL is due in 2018. Sources: Industrial Point Source Discharge Municipal Point Source Discharges Source Unknown
VAP-E26E_BRD02A00	Broad Creek	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038A, 12/30/2004. RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Enterococcus	10083 2006 2018	VAP-E26E-20 Broad Creek was considered fully supporting but threatened of the Recreation Use in 1998 due to BPJ (6 dischargers into embayment), but there were acceptable FC violation rates at station 3-BRD000.62 in both the 2002 and 2004 cycles, so it was dropped in 2004. In the 2006 cycle, the fecal coliform violation rate remained acceptable (0/23), however the enterococci violation rate failed (2/9), therefore the segment is considered impaired of the Recreation Use. The TMDL is due in 2018. Sources: Industrial Point Source Discharge Municipal Point Source Discharges Source Unknown

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Broad Creek		
TMDL Group ID:	10083		
VAP-E26E_BRD03A00	Broad Creek	MIDDLESEX CO	<p>The boundaries are defined in VDH shellfish condemnation 033-038C, 12/30/2004.</p> <p>Sq. mileage adjusted in 2006, although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Enterococcus	10083	2006 2018 VAP-E26E-20
	<p>Sources: Industrial Point Source Discharge Municipal Point Source Discharges Source Unknown</p>		
VAP-E26E_BRD04A00	Broad Creek	MIDDLESEX CO	<p>Described in VDH-DSS condemnation 033-038M1, 12/3/2004</p> <p>Size reduced in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Enterococcus	10083	2006 2018 VAP-E26E-20
	<p>Sources: Industrial Point Source Discharge Municipal Point Source Discharges Source Unknown</p>		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Browns Run		
TMDL Group ID:	00835		
VAN-E08R_BOS01A02	Browns Run	FAUQUIER CO	Segment begins at the confluence with an unnamed tributary to Browns Run, near the Route 17 bridge, and continues downstream until the confluence with Marsh Run.
VA Overall AU Category: 5A	Impairment	2.39 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	00835 2002 2014	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 3 samples - 100%) were recorded at DEQ's ambient water quality monitoring station (3-BOS000.72) at the Route 653 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
TMDL Watershed Name:	Carter Cove		
TMDL Group ID:	01078		
VAP-E26E_CTR04A02	Carter Cove	LANCASTER CO	As described in VDH-DSS SFC 020-041C, 12/17/2004
			RPPMH
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01078 2002 2014	VAP-E26E-30
			VDH shellfish condemnation 020-041C, 12/17/2004
			Was threatened in 1998 b/c it was part of the seasonal condemnation. Was downgraded during 2002 cycle.
Sources: Source Unknown			
TMDL Watershed Name:	Carter Creek		
TMDL Group ID:	01077		
VAP-E26E_CTR02A00	Carter Creek	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 041B, 12/17/2004.
			Size adjusted in 2006
			RPPMH
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01077 1998 2010	VAP-E26E-19
			VDH-DSS condemnation 020-041B, 12/17/2004
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Carter Creek, Eastern Branch		
TMDL Group ID:	01072		
VAP-E26E_CEB01A00	Eastern Branch Carter Creek	LANCASTER CO	<p>The boundaries are delineated in VDH shellfish condemnation 041A, 12/17/2004.</p> <p>Segment was expanded in 2006 cycle and now incorporates CEB02A00 (Bridge Cove), which was previously open.</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.25 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Recreation	Fecal Coliform	01072	1998
			2016
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E26E-17
			In the 2004 cycle, the segment was also listed as impaired of the Recreation Use goal based on a fecal coliform violation rate of 5/38 at 3-CEB001.92, located at Route 200. Although the violation rate in the 2006 cycle dropped to 0/15, the monitoring ceased in 2002, therefore the previous impairment is carried over. The TMDL is due in 2014.
		Sources:	Source Unknown
TMDL Group ID:	01073		
VAP-E26E_CEB01A00	Eastern Branch Carter Creek	LANCASTER CO	<p>The boundaries are delineated in VDH shellfish condemnation 041A, 12/17/2004.</p> <p>Segment was expanded in 2006 cycle and now incorporates CEB02A00 (Bridge Cove), which was previously open.</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.25 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Shellfishing	Fecal Coliform	01073	1998
			2010
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E26E-17
			VDH shellfish condemnation 020-041A, 12/17/2004
		Sources:	Source Unknown

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Carter Run		
TMDL Group ID:	20024		
VAN-E02R_CAE02A04	Carter Run	FAUQUIER CO	Segment begins at the confluence with Horner Run and continues downstream until the confluence with South Run.
VA Overall AU Category: 5A	Impairment	8.24 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	20024 2006 2018	Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 9 samples - 33.3%) were recorded at DEQ's ambient water quality monitoring station (3-CAE006.32) at the Route 738 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
VAN-E02R_CAE03A06	Carter Run	FAUQUIER CO	Segment begins at the confluence with Strothers Branch and continues downstream until the confluence with an unnamed tributary to Carter Run, at rivermile 14.71.
VA Overall AU Category: 5A	Impairment	1.62 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	20024 2006 2018	Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 8 samples - 37.5%) were recorded at DEQ's ambient water quality monitoring station (3-CAE015.01), at a private road off of Route 719, to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
TMDL Watershed Name:	Cat Point Creek		
TMDL Group ID:	10104		
VAP-E23R_CAT01A98	Cat Point Creek	RICHMOND CO	Cat Point Creek from Ruin Branch (river mile 14.1) downstream to Canal Swamp (river mile 10.54.)
VA Overall AU Category: 5A	Impairment	4.99 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	10104 2006 2018	VAP-E23R-13
During the 2006 cycle, the E. coli violation rate at 5ACAT011.62 was 2/13, therefore the segment is considered impaired of the Recreation Use. Further monitoring is recommended.			
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Cedar Run		
TMDL Group ID:	00847		
VAN-E16R_CED01A00	Cedar Run	CULPEPER CO	Segment begins at the confluence with Cabin Branch and continues downstream until the confluence with the Rapidan River.
VA Overall AU Category: 5A	Impairment	2.19 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	00847	2004 2016 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 13 samples - 15.4%) were recorded at DEQ's ambient water quality monitoring station (3-CED000.59) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
VAN-E16R_CED02A04	Cedar Run	CULPEPER CO	Segment begins at the confluence with Buck Run and continues downstream until the confluence with Cabin Branch.
VA Overall AU Category: 5A	Impairment	3.21 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00847	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 3 samples - 100%) were recorded at DEQ's special study water quality monitoring station (3-CED003.52) at the Route 652 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
Recreation	Fecal Coliform	00847	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 8 samples - 37.5%) were recorded at DEQ's special study water quality monitoring station (3-CED003.52) at the Route 652 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
TMDL Watershed Name:	Church Swamp		
TMDL Group ID:	10100		
VAP-E23R_CRC01A06	Church Swamp	ESSEX CO	Headwaters to mouth at tidal Hoskins Creek
VA Overall AU Category: 5C	Impairment	3.64 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	10100	2006 2018 VAP-E23R-09
Church Swamp was assessed as not supporting of the Aquatic Life Use based on a pH violation rate of 2/2 at -CRC001.38.			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Claiborne Run		
TMDL Group ID:	00323		
VAN-E20R_CLB01A00	Claiborne Run	STAFFORD CO	Segment begins at the confluence with an unnamed tributary to Claiborne Run, approximately 0.5 rivermile upstream of the Route 1 crossing, and continues downstream until the confluence with the Rappahannock River.
VA Overall AU Category: 5A	Impairment	4.89 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00323	2006 2010 Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 8 samples - 62.5%) were recorded at DEQ's ambient water quality monitoring station (3-CLB000.50) at the Route 3 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform impairment, beginning in 1998.
	Sources: Source Unknown		
Recreation	Fecal Coliform	00323	1998 2010 Although the data obtained during the 2006 assessment window shows exceedances of the instantaneous fecal coliform bacteria criterion (1 of 6 samples - 16.7%), it is categorized as having insufficient information with which to determine use support. No additional fecal coliform data has been collected from the DEQ's ambient water quality monitoring station (3-CLB000.50) at Route 3 since the previous assessment window. The segment shall remain categorized as impaired for fecal coliform bacteria, as it has been since 1998.
	Sources: Source Unknown		
TMDL Group ID:	00848		
VAN-E20R_CLB01A00	Claiborne Run	STAFFORD CO	Segment begins at the confluence with an unnamed tributary to Claiborne Run, approximately 0.5 rivermile upstream of the Route 1 crossing, and continues downstream until the confluence with the Rappahannock River.
VA Overall AU Category: 5A	Impairment	4.89 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	00848	2002 2014 Sufficient exceedances of the instantaneous pH criterion (3 of 12 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station (3-CLB000.50) at the Route 3 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.
	Sources: Source Unknown		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_BES01A98	Bells Creek	LANCASTER CO	<p>The boundaries are described in VDH shellfish condemnation 021-058B, 4/21/2004.</p> <p>Size adjusted in 2006, although area did not change</p> <p>CRRMH</p>
VA Overall AU Category: 5A	Impairment	0.05 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25
			<p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25
			<p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_BLD01A98	Belwood Swamp	LANCASTER CO	Tidal limit to its mouth at the Western Branch Corrotoman River. Previously called riverine CRRMH
VA Overall AU Category: 5A	Impairment	0.01 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_CRR01A00	Corrotoman River	LANCASTER CO	The mainstem of the Corrotoman River downstream of the confluence of the Eastern and Western Branches Corrotoman River.
			CRRMH
VA Overall AU Category: 5A	Impairment	4.24 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074	2002 2010 VAP-E26E-25
			The Corrotoman River was included in EPA's 1998 Overlist. The segment was previously called impaired solely on EPA's overlist (nutrients/eutrophication biological indicators).
			The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria. The TMDL is due in 2010.
			During the 2006 cycle, monitoring was conducted at Coastal 2000 station 3-CRR000.58. The weight of evidence approach was utilized and the station was considered impaired because of sparse benthos. There was no toxicity or chemical contamination observed, therefore the approach considered the cause to be water quality.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01074	2002 2010 VAP-E26E-25
			The Corrotoman River was included in EPA's 1998 Overlist. The segment was previously called impaired solely on EPA's overlist (nutrients/eutrophication biological indicators).
			The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria. The TMDL is due in 2010.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_CTM01A00	Eastern Branch Corrotoman River	LANCASTER CO	<p>The boundaries are described in VDH shellfish condemnation 021-058C, 4/21/2004.</p> <p>Size expanded in 2006</p> <p>CRRMH</p>
VA Overall AU Category: 5A	Use	Impairment	0.61 SQUARE MILES
Aquatic Life	Oxygen, Dissolved	01074	2006
		2010	<p>Impairment Specific Comments and/or Impairment Specific VA Category</p> <p>VAP-E26E-25</p> <p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01074	2006
		2010	<p>VAP-E26E-25</p> <p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_CTO01A02	Western Branch Corrotoman River	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-132A, 3/27/2002, not otherwise segmented CRRMH
VA Overall AU Category: 5A			
Use	Impairment	0.50 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_CTO02A06	Western Branch Corrotoman River	LANCASTER CO	Mainstem downstream of SFC 021-132A CRRMH
VA Overall AU Category: 5A			
Use	Impairment	1.37 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_DAS01A02	Davis Creek	LANCASTER CO	As described in VDH-DSS SFC 021-132C. 3/27/2002. Size adjusted in 2006 CRRMH
VA Overall AU Category: 5A	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_EWE01A00	Ewells Prong	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 187C, 3/27/2002. CRRMH
VA Overall AU Category: 5A			
Use	Impairment	0.04 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_HLS01A00	Hills Creek	LANCASTER CO	<p>The boundaries are described in VDH shellfish condemnation 021-058A, 4/21/2004.</p> <p>Size expanded in 2006 cycle</p> <p>CRRMH</p>
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25
			<p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25
			<p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_LIT01A06	Little Branch	LANCASTER CO	Tidal limit to mouth at Western Branch Corrotoman River CRRMH
VA Overall AU Category: 5A			
Use	Impairment	0.11 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved		01074 2006 2010 VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved		01074 2006 2010 VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_MIP01A00	Millenbeck Prong	LANCASTER CO	<p>The boundaries are described in VDH shellfish condemnation 187B, 3/27/2002.</p> <p>Size adjusted in 2006, although area did not change</p> <p>CRRMH</p>
VA Overall AU Category: 5A	Impairment	0.04 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25
			<p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25
			<p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_MYE01A00	Myer Creek	LANCASTER CO	<p>The boundaries are described in VDH shellfish condemnation 198B, 11/6/2003.</p> <p>Size adjusted in 2006</p> <p>CRRMH</p>
VA Overall AU Category: Use	5A		
Aquatic Life	<p>Impairment</p> <p>Oxygen, Dissolved</p>	<p>0.08 SQUARE MILES</p> <p>TMDL Group ID 01074</p> <p>First Listed on 303(d) 2006</p> <p>TMDL Schedule 2010</p>	<p>Impairment Specific Comments and/or Impairment Specific VA Category</p> <p>VAP-E26E-25</p> <p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	<p>Oxygen, Dissolved</p>	<p>01074</p> <p>2006</p> <p>2010</p>	<p>VAP-E26E-25</p> <p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_MYE01B02	Myer Creek, UT	LANCASTER CO	As described in VDH-DSS SFC 21-198C, 11/6/2003. Size adjusted in 2006, although area did not change CRRMH
VA Overall AU Category: 5A	Impairment	0.04 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25, VAP-E26E-31 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_MYE01C04	Myer Creek	LANCASTER CO	Described in VDH Condemnation 21-198A, 11/6/2003 CRRMH
VA Overall AU Category: 5A	Impairment	0.05 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_MYE02C06	Myer Creek	LANCASTER CO	Described in VDH-DSS SFC 021-198M, 11/6/2003 CRRMH
VA Overall AU Category: 5A	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_SEN01A00	Senior Creek	LANCASTER CO	<p>The boundaries are described in VDH shellfish condemnation 021-132B, 3/27/2002.</p> <p>Size adjusted in 2006 cycle, although area did not change.</p> <p>CRRMH</p>
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25
			<p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25
			<p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_TAY01A00	Taylor Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-205, 3/27/2002. Size reduced in 2004 cycle. CRRMH
VA Overall AU Category: 5A	Impairment	0.09 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_TON01A00	Town Creek	LANCASTER CO	<p>The boundaries are described in VDH shellfish condemnation 187A, 3/27/2002.</p> <p>Size adjusted in 2006, although area did not change</p> <p>CRRMH</p>
VA Overall AU Category: 5A	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25
			<p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01074	2006 2010 VAP-E26E-25
			<p>The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_WHR01A00	Whitehouse Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 187D, 3/27/2002
			Size adjusted in 2006, although area did not change
			CRRMH
VA Overall AU Category: 5A	Impairment	0.05 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25
			The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25
			The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River Mesohaline		
TMDL Group ID:	01074		
VAP-E26E_ZZZ02A06	Unsegmented estuaries in E26	LANCASTER CO	Unsegmented portion of watershed
			CRRMH
VA Overall AU Category: 5A			
Use	Impairment	1.74 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25
			The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01074 2006 2010	VAP-E26E-25
			The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River, Eastern Branch		
TMDL Group ID:	01075		
VAP-E26E_CTM01A00	Eastern Branch Corrotoman River	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-058C, 4/21/2004. Size expanded in 2006 CRRMH
VA Overall AU Category: 5A	Impairment	0.61 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01075	1998 2010 VAP-E26E-16 VDH shellfish condemnation 021-058C, 4/21/2004 Size expanded in 2006 cycle
Sources: Source Unknown			
TMDL Watershed Name:	Corrotoman River, Western Branch		
TMDL Group ID:	01076		
VAP-E26E_BLD01A98	Belwood Swamp	LANCASTER CO	Tidal limit to its mouth at the Western Branch Corrotoman River. Previously called riverine CRRMH
VA Overall AU Category: 5A	Impairment	0.01 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01076	2002 2010 VAP-E26E-09 Portion of VDH shellfish condemnation 021-132A, 3/27/2002
Sources: Source Unknown			
VAP-E26E_CTO01A02	Western Branch Corrotoman River	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-132A, 3/27/2002, not otherwise segmented CRRMH
VA Overall AU Category: 5A	Impairment	0.50 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01076	1998 2010 VAP-E26E-09 VDH shellfish condemnation 021-132A, 3/27/2002
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Corrotoman River, Western Branch		
TMDL Group ID:	01076		
VAP-E26E_LIT01A06	Little Branch	LANCASTER CO	Tidal limit to mouth at Western Branch Corrotoman River CRRMH
VA Overall AU Category: 5A	Impairment	0.11 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01076	1998 2010 VAP-E26E-09
Sources: Source Unknown			
Portion of VDH shellfish condemnation 021-132A, 3/27/2002			
Craig Run			
TMDL Watershed Name:	Craig Run		
TMDL Group ID:	00836		
VAN-E08R_CRA01A02	Craig Run	FAUQUIER CO	Segment begins at the headwaters of Craig Run and continues downstream until the confluence with Marsh Run.
VA Overall AU Category: 5A	Impairment	3.61 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Fecal Coliform	00836	2004 2016 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 3 samples - 100%) were recorded at DEQ's ambient water quality monitoring station (3-CRA000.82) at the Route 656 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
Davis Creek			
TMDL Watershed Name:	Davis Creek		
TMDL Group ID:	01079		
VAP-E26E_DAS01A02	Davis Creek	LANCASTER CO	As described in VDH-DSS SFC 021-132C. 3/27/2002. Size adjusted in 2006 CRRMH
VA Overall AU Category: 5A	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01079	2002 2014 VAP-E26E-35
Sources: Source Unknown			
VDH-DSS Shellfish Condemnation 021-132C, 3/27/2002			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Deep Creek		
TMDL Group ID:	01055		
VAP-E25E_DEE01A04	Deep Creek	LANCASTER CO	Described in VDH shellfish condemnation 023-121B, 9/23/2004. In 2002, Deep Creek was split into 3 segments. In 2004, the condemnation was expanded and the segments were joined. Size adjusted in 2006. RPPMH
VA Overall AU Category: 5A	Impairment	0.22 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Shellfishing	Fecal Coliform	01055	1998 2010 VAP-E25E-10 VDH condemnation 023-121B, 9/23/2004
Sources: Source Unknown			
Deep Run			
TMDL Watershed Name:	Deep Run		
TMDL Group ID:	20023		
VAN-E10R_DPR02A02	Deep Run	FAUQUIER CO	Segment begins at the confluence with Pine Branch and continues downstream until the confluence with Green Branch.
VA Overall AU Category: 5A	Impairment	2.79 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Fecal Coliform	20023	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 7 - 28.6%) were recorded at DEQ's ambient water quality monitoring station (3-DPR004.93) at the Route 752 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
Elmwood Creek			
TMDL Watershed Name:	Elmwood Creek		
TMDL Group ID:	10112		
VAP-E22R_ELM01A06	Elmwood Creek	ESSEX CO	Headwaters to tidal limit
VA Overall AU Category: 5C	Impairment	4.87 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Aquatic Life	pH	10112	2006 2018 VAP-E22R-04 Elmwood Creek was assessed as not supporting the Aquatic Life Use based on a pH violation rate of 2/8 at 3-ELM002.23.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Ewells Prong		
TMDL Group ID:	01080		
VAP-E26E_EWE01A00	Ewells Prong	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 187C, 3/27/2002. CRRMH
VA Overall AU Category: 5A			
Use	Impairment	0.04 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01080 1998 2010	VAP-E26E-06 VDH shellfish condemnation 187C, 3/27/2002
Sources: Source Unknown			
TMDL Watershed Name:	Farmers Hall Creek		
TMDL Group ID:	01037		
VAP-E22R_FAR01A04	Farmers Hall Creek	ESSEX CO	Headwaters to mouth
VA Overall AU Category: 5A			
Use	Impairment	4.38 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01037 2004 2016	VAP-E22R-02 Farmers Hall Creek was assessed as not supporting of the Recreation Use support goal based on a fecal coliform violation rate of 3/13 at the Route 631 bridge (3-FAR002.88).
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Farnham Creek		
TMDL Group ID:	01032		
VAP-E25E_FAM01A98	Farnham Creek	RICHMOND CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 070, 10/17/2000</p> <p>Sq. mileage adjusted in 2006 although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.41 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride		01032 2004 2016 VAP-E25E-05
			In the 2004 cycle, impairments of the Aquatic Life and Wildlife Uses were added due to chloride violations at 3-FAM002.62. The chloride TMDL is due in 2016.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
Wildlife	Chloride		01032 2004 2016 VAP-E25E-05
			In the 2004 cycle, impairments of the Aquatic Life and Wildlife Uses were added due to chloride violations at 3-FAM002.62. The chloride TMDL is due in 2016.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
TMDL Group ID:	01056		
VAP-E25E_FAM01A98	Farnham Creek	RICHMOND CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 070, 10/17/2000</p> <p>Sq. mileage adjusted in 2006 although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.41 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform		01056 1998 2014 VAP-E25E-05
			In 2002, the segment was assessed as not supporting the Recreation Use due to fecal coliform violations at 3-FAM002.62. During the 2006 cycle, the violation rate was 3/18. The TMDL is due in 2014.
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Farnham Creek		
TMDL Group ID:	01057		
VAP-E25E_FAM01A98	Farnham Creek	RICHMOND CO	The segment boundaries are delineated in VDH shellfish condemnation 070, 10/17/2000 Sq. mileage adjusted in 2006 although area did not change RPPMH
VA Overall AU Category: 5A	Impairment	0.41 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01057	1998 2010 VAP-E25E-05 VDH condemnation 024-070, 10/17/2000
Sources: Source Unknown			
Finks Run			
TMDL Watershed Name:	Finks Run		
TMDL Group ID:	60089		
VAN-E14R_FIK01A06	Finks Run	MADISON CO	Segment begins at the headwaters of Finks Run and continues downstream until the confluence with the Robinson River.
VA Overall AU Category: 5A	Impairment	3.02 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Escherichia coli	60089	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 5 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-FIK001.08) at the Route 650 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
Greenvale Creek			
TMDL Watershed Name:	Greenvale Creek		
TMDL Group ID:	01058		
VAP-E25E_GEE01A98	Greenvale Creek	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 094A, 2/5/2003. RPPMH
VA Overall AU Category: 5A	Impairment	0.08 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01058	1998 2010 VAP-E25E-15 VDH-DSS condemnation 094A, 2/5/2003
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Harry George Creek		
TMDL Group ID:	10080		
VAP-E25E_HRY01A06	Harry George Creek	MIDDLESEX CO	Designated in VDH SFC 202B, 9/3/2003 RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.09 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	10080	2006 2018 VAP-E25E-20 VDH Shellfish Condemnation 202B, 9/3/2003
Sources: Source Unknown			
Hazel River			
TMDL Watershed Name:	Hazel River		
TMDL Group ID:	60076		
VAN-E07R_HAZ01A04	Hazel River	CULPEPER CO	Segment begins at the confluence with Indian Run and continues downstream until the confluence with Muddy Run.
VA Overall AU Category: 5A			
Use	Impairment	3.32 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60076	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 10 samples - 50.0%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ005.98) at the Route 625 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
Recreation	Fecal Coliform	60076	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (5 of 14 samples - 35.7%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ005.98) at the Route 625 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Hazel River		
TMDL Group ID:	60079		
VAN-E04R_HAZ01A00	Hazel River	CULPEPER CO RAPPAHANNOCK CO	Segment begins at the confluence with Blackwater Creek and continues downstream until the confluence with an unnamed tributary to the Hazel River, at rivermile 16.03.
VA Overall AU Category: 5A	Impairment	5.58 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60079	2006 2010 Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 9 samples - 33.3%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ018.29) at the Route 729 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed, beginning in 2002, for a fecal coliform bacteria impairment.
		Sources: Source Unknown	
Recreation	Fecal Coliform	60079	2002 2010 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 20 samples - 15.0%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ018.29) at the Route 729 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed, beginning in 2002, for a fecal coliform bacteria impairment.
		Sources: Source Unknown	
VAN-E04R_HAZ01B06	Hazel River	CULPEPER CO	Segment begins at the confluence with Devils Run and continues downstream until the confluence with Blackwater Creek.
VA Overall AU Category: 5A	Impairment	3.54 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60079	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 6 samples - 33.3%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ026.16) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown	
Recreation	Fecal Coliform	60079	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 6 samples - 33.3%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ026.16) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Hazel River		
TMDL Group ID:	60079		
VAN-E04R_HAZ01C06	Hazel River	CULPEPER CO	Segment begins at the confluence with the Hughes River and continues downstream until the confluence with Devils Run.
VA Overall AU Category: 5A	Impairment	6.77 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60079	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 6 samples - 33.3%) were recorded, upstream, at DEQ's ambient water quality monitoring station (3-HAZ026.16) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources: Source Unknown		
Recreation	Fecal Coliform	60079	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 6 samples - 33.3%) were recorded, upstream, at DEQ's ambient water quality monitoring station (3-HAZ026.16) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources: Source Unknown		
VAN-E04R_HAZ02A02	Hazel River	RAPPAHANNOCK CO	Segment begins at the Route 707 bridge and continues downstream until the confluence with the Hughes River.
VA Overall AU Category: 5A	Impairment	0.78 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	60079	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 14 samples - 21.4%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ032.54) at the Route 644 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources: Source Unknown		

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Hazel Run		
TMDL Group ID:	00849		
VAN-E20R_HAL01A00	Hazel Run	FREDERICKSBURG CITY SPOTSYLVANIA CO	Segment begins at the Route 95 crossing and continues downstream until the confluence with the Rappahannock River.
VA Overall AU Category: 5A	Impairment	4.46 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00849 2006 2016	Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 8 samples - 37.5%) were recorded at DEQ's ambient water quality monitoring station (3-HAL001.44) at the Route 1 Business bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform impairment, beginning in 2004.
		Sources: Source Unknown	
Recreation	Fecal Coliform	00849 2004 2016	Although the data obtained during the 2006 assessment window shows exceedances of the instantaneous fecal coliform bacteria criterion (1 of 7 samples - 14.3%), it is categorized as having insufficient information with which to determine use support. No additional fecal coliform data has been collected from the DEQ's ambient water quality monitoring station (3-HAL001.44) at Route 1 Business since the previous assessment window. The segment shall remain categorized as impaired for fecal coliform bacteria, as it has been since 2004.
		Sources: Source Unknown	
Hills Creek			
TMDL Watershed Name:	Hills Creek		
TMDL Group ID:	01081		
VAP-E26E_HLS01A00	Hills Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-058A, 4/21/2004.
			Size expanded in 2006 cycle
			CRRMH
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01081 1998 2010	VAP-E26E-14
		Sources: Source Unknown	VDH shellfish condemnation 021-058A, 4/21/2004

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Hoskins Creek		
TMDL Group ID:	00253		
VAP-E23E_HOK01A98	Hoskins Creek	ESSEX CO	Hoskins Creek from the Town of Tappahannock STP downstream to the mouth at the Rappahannock River. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Enterococcus		00253 2006 2010 VAP-E23E-03 This segment was initially included on the 1994 303(d) list based on excessive fecal coliform standard violations recorded at the Rt. 360 bridge (3-HOK000.74). For the 2004 cycle, the segment was assessed not supporting of the Recreation use support goal based on a fecal coliform standard violation rate of 9/49 recorded at 3-HOK000.74. The upstream limit was extended to the Town of Tappahannock STP in the 1998 cycle in recognition that the STP may be a contributing source, although this has not been verified. During the 2006 cycle, the segment remained impaired and enterococci was added as an impairing cause with a violation rate of 9/12 at 3-HOK000.74.
		Sources: Municipal Point Source Discharges Source Unknown	
Recreation	Fecal Coliform		00253 1996 2010 VAP-E23E-03 This segment was initially included on the 1994 303(d) list based on excessive fecal coliform standard violations recorded at the Rt. 360 bridge (3-HOK000.74). For the 2004 cycle, the segment was assessed not supporting of the Recreation use support goal based on a fecal coliform standard violation rate of 9/49 recorded at 3-HOK000.74. The upstream limit was extended to the Town of Tappahannock STP in the 1998 cycle in recognition that the STP may be a contributing source, although this has not been verified. During the 2006 cycle, the segment remained impaired and enterococci was added as an impairing cause with a violation rate of 9/12 at 3-HOK000.74.
		Sources: Municipal Point Source Discharges Source Unknown	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Hoskins Creek		
TMDL Group ID:	00254		
VAP-E23E_HOK01A98	Hoskins Creek	ESSEX CO	Hoskins Creek from the Town of Tappahannock STP downstream to the mouth at the Rappahannock River. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride		00254 2004 2016 VAP-E23E-03 In the 2004 cycle, the segment was assessed as not supporting the Aquatic Life and Wildlife uses based on chloride violations at 3-HOK000.74. The TMDL for chloride is due in 2016.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
Wildlife	Chloride		00254 2004 2016 VAP-E23E-03 In the 2004 cycle, the segment was assessed as not supporting the Aquatic Life and Wildlife uses based on chloride violations at 3-HOK000.74. The TMDL for chloride is due in 2016.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
TMDL Group ID:	01043		
VAP-E23R_HOK01A04	Hoskins Creek	ESSEX CO	Headwaters to the tidal limit
VA Overall AU Category: 5C			
Use	Impairment	12.96 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH		01043 2004 2016 VAP-E23R-04 Assessed not supporting of the Aquatic Life use support goal based on pH standard violation rates of 8/13 recorded at monitoring station 3-HOK011.45, located at the Route 717 bridge and of 11/18 at 3-HOK007.25.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Hoskins Creek		
TMDL Group ID:	10073		
VAP-E23E_HOK01A98	Hoskins Creek	ESSEX CO	Hoskins Creek from the Town of Tappahannock STP downstream to the mouth at the Rappahannock River. RPPMH
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use	pH	10073	2006 2018 VAP-E23E-03, VAP-E22E-01
Aquatic Life			
During the 2006 cycle, pH was added as an impairment because of a violation rate of 6/19 at 3-HOK003.61. Natural conditions are suspected.			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Hughes River		
TMDL Group ID:	00832		
VAN-E03R_HUE01A00	Hughes River	CULPEPER CO RAPPAHANNOCK CO	Segment begins at the confluence with Kilbys Creek and continues downstream until the confluence with the Hazel River.
VA Overall AU Category: 5A	Impairment	3.68 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use	Escherichia coli	00832	2006 2016 Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 11 samples - 36.4%) were recorded at DEQ's ambient water quality monitoring station (3-HUE000.20) at the Route 644 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was initially listed for fecal coliform bacteria impairment in 2004.
Recreation			
Sources: Source Unknown			
Recreation	Fecal Coliform	00832	2004 2016 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 19 samples - 15.8%) were recorded at DEQ's ambient water quality monitoring station (3-HUE000.20) at the Route 644 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was initially listed for fecal coliform bacteria impairment in 2004.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Indian Run		
TMDL Group ID:	60080		
VAN-E07R_IND01A04	Indian Run	CULPEPER CO	Segment begins at the confluence with an unnamed tributary to Indian Run, upstream from Route 626, and continues downstream until the confluence with the Hazel River.
VA Overall AU Category: 5A	Impairment	3.84 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	60080	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 7 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (3-IND001.14) at the Route 624 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
TMDL Watershed Name:	Lagrange Creek		
TMDL Group ID:	00196		
VAP-E25E_LGG01A98	Lagrange Creek	MIDDLESEX CO	As described in VDH SFC 127, 6/11/1996.
			RPPMH
VA Overall AU Category: 5D	Impairment	0.60 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	00196	1998 2005 Category 4A VAP-E25E-01 The segment was assessed in 1998 as not supporting the Shellfish Consumption Use based on VDH-DSS Condemnation 127, 6/11/1996. The TMDL for this original portion was completed and approved by EPA on 11/15/2005. The segment should be classified as Cat. 4A, however at the time of assessment there was no EPA TMDLID available.
Sources: Non-Point Source			
TMDL Group ID:	01068		
VAP-E25R_LGG01A98	Lagrange Creek	MIDDLESEX CO	Lagrange Creek from its headwaters to the limit of tidal influence.
VA Overall AU Category: 5A	Impairment	2.72 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01068	2004 2016 VAP-E25R-02 Lagrange Creek was assessed in 2004 as not supporting of the Recreation Use support goal based on a fecal coliform violation rate of 3/20 recorded at the Route 610 bridge (3-LGG004.54). There has been no additional monitoring since 2001.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Lagrange Creek		
TMDL Group ID:	10081		
VAP-E25E_LGG02A06	Lagrange Creek	MIDDLESEX CO	As described in VDH SFC 127, 2/25/2004, not otherwise segmented. RPPMH
VA Overall AU Category: 5A	Impairment	0.60 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	10081	1998 2018 VAP-E25E-21, VAP-E22E-01
			The upstream portion of Lagrange Creek was assessed in 1998 as not supporting the Shellfish Consumption Use based on VDH-DSS Condemnation 127, 6/11/1996. The TMDL for this original portion was completed and approved by EPA on 11/15/2005. During the 2006 cycle, however, the condemnation was extended downstream. The TMDL for this segment is due in 2018.
	Sources: Non-Point Source		
TMDL Watershed Name:	Lancaster Creek		
TMDL Group ID:	01033		
VAP-E25E_LAN01A98	Lancaster Creek	LANCASTER CO RICHMOND CO	The segment boundaries are delineated in VDH SFC 120B, 9/23/2004. Size reduced in 2006 cycle. RPPMH
VA Overall AU Category: 5A	Impairment	0.46 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	Chloride	01033	2004 2016 VAP-E25E-16
			Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
Wildlife	Chloride	01033	2004 2016 VAP-E25E-16
			Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Lancaster Creek		
TMDL Group ID:	01033		
VAP-E25E_LAN02A02	Lancaster Creek	LANCASTER CO RICHMOND CO	The mouth of Lancaster Creek downstream of VDH SFC 120B, 9/23/2004, not otherwise segmented. Size increased in 2006 cycle. RPPMH
VA Overall AU Category: Use	5A		
	Impairment	1.16 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01033	2004 2016 VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
Wildlife	Chloride	01033	2004 2016 VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
VAP-E25E_LAN03A06	Lancaster Creek	RICHMOND CO	Described in VDH SFC 023-120M1, 9/23/2004 Size increased in 2006 cycle. RPPMH
VA Overall AU Category: Use	5A		
	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01033	2004 2016 VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
Wildlife	Chloride	01033	2004 2016 VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Lancaster Creek		
TMDL Group ID:	01059		
VAP-E25E_LAN01A98	Lancaster Creek	LANCASTER CO RICHMOND CO	The segment boundaries are delineated in VDH SFC 120B, 9/23/2004. Size reduced in 2006 cycle. RPPMH
VA Overall AU Category: 5A	Impairment	0.46 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01059	1998 2010 VAP-E25E-11
Sources: Source Unknown			
TMDL Group ID:	01060		
VAP-E25E_LAN01A98	Lancaster Creek	LANCASTER CO RICHMOND CO	The segment boundaries are delineated in VDH SFC 120B, 9/23/2004. Size reduced in 2006 cycle. RPPMH
VA Overall AU Category: 5A	Impairment	0.46 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Fecal Coliform	01060	1998 2016 VAP-E25E-11
Sources: Source Unknown			
TMDL Watershed Name:	LaRogue Run		
TMDL Group ID:	60097		
VAN-E19R_LAR01A04	LaRogue Run	SPOTSYLVANIA CO	Segment begins at the headwaters of LaRogue Run and continues downstream until the confluence with the Rappahannock River.
VA Overall AU Category: 5A	Impairment	2.86 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Fecal Coliform	60097	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 9 samples - 22.2%) were recorded at DEQ's ambient water quality monitoring station (3-LAR000.48) at the Route 620 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Leathers Run		
TMDL Group ID:	60090		
VAN-E14R_LEA01A06	Leathers Run	MADISON CO	Segment begins at the confluence with an unnamed tributary to Leathers Run, approximately 0.65 rivermile downstream from the Route 641 crossing, and continues downstream until the confluence with the Robinson River.
VA Overall AU Category: 5A	Impairment	2.03 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Escherichia coli	60090	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 5 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-LEA000.17) at the Route 609 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
Little Branch			
TMDL Watershed Name:	Little Branch		
TMDL Group ID:	10084		
VAP-E26E_LIT01A06	Little Branch	LANCASTER CO	Tidal limit to mouth at Western Branch Corrotoman River
			CRRMH
VA Overall AU Category: 5A	Impairment	0.11 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Enterococcus	10084	2006 2018 VAP-E26E-26
Little Branch was assessed as not supporting of the Recreation Use during the 2006 cycle due to a enterococci violation rate of 3/9 at 3-LIT000.85.			
Sources: Source Unknown			
Little Carter Creek, Jugs Creek			
TMDL Watershed Name:	Little Carter Creek, Jugs Creek		
TMDL Group ID:	01038		
VAP-E23E_LIE01A98	Little Carter Creek, Jugs Creek	RICHMOND CO	The segment boundaries are defined in VDH shellfish condemnation 068B, 3/6/2002.
			RPPMH
VA Overall AU Category: 5A	Impairment	0.32 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01038	1998 2010 VAP-E23E-02
VDH-DSS SFC 068B, 3/6/2002 remains closed but is now incorporated into SFC 068A, 3/26/2004			
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Little Wicomico River		
TMDL Group ID:	10026		
VAP-E22R_FAR01A04	Farmers Hall Creek	ESSEX CO	Headwaters to mouth
VA Overall AU Category: 5A	Impairment	4.38 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	10026	2006 2018 VAP-A34R-02
In 2006, Farmers Hall Creek was assessed as not supporting of the Aquatic Life Use support goal based on a pH violation rate of 2/13 at the Route 631 bridge (3-FAR002.88).			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Locklies Creek		
TMDL Group ID:	01082		
VAP-E26E_LOL01A02	Locklies Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 102A, 2/6/2004.
			RPPMH
VA Overall AU Category: 5A	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01082	1998 2010 VAP-E26E-13
VDH shellfish condemnation 031-102A, 3/6/2004			
Sources: Source Unknown			
TMDL Watershed Name:	Marsh Run		
TMDL Group ID:	00318		
VAN-E08R_MAH01A00	Marsh Run	FAUQUIER CO	Segment begins at the confluence with Harpers Run, at approximately rivermile 2.4, and continues downstream until the confluence with the Rappahannock River.
VA Overall AU Category: 5A	Impairment	2.25 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00318	2006 2010
Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 7 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (3-MAH000.19) at the Route 651 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed, beginning in 1996, for a fecal coliform bacteria impairment.			
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Marsh Run		
TMDL Group ID:	00318		
VAN-E08R_MAH02A02	Marsh Run	FAUQUIER CO	Segment begins at the confluence with Craig Run and continues downstream until the confluence with Harpers Run, at approximately rivermile 2.4.
VA Overall AU Category: 5A	Impairment	5.91 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	00318 1996 2010	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 4 samples - 75.0%) were recorded at DEQ's ambient water quality monitoring station (3-MAH004.18) at the Route 668 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
TMDL Group ID:	00843		
VAN-E13R_MAS01A04	Marsh Run	GREENE CO ORANGE CO	Segment begins at the headwaters of Marsh Run and continues downstream until the confluence with the Rapidan River.
VA Overall AU Category: 5A	Impairment	5.19 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	00843 2004 2016	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 13 samples - 30.8%) were recorded at DEQ's ambient water quality monitoring station (3-MAS001.55) at the Route 644 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
TMDL Watershed Name:	Masons Mill Swamp		
TMDL Group ID:	01061		
VAP-E25E_MAO01A00	Masons Mill Swamp	MIDDLESEX CO	Tidal Masons Mill Swamp watershed - expanded in 2006. RPPMH
VA Overall AU Category: 5A	Impairment	0.17 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01061 2004 2016	VAP-E25E-17 Tidal Masons Mill Swamp was assessed as not supporting the Aquatic Life Use based on a pH violation rate of 5/11 at 3-MAO000.62.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Massaponax Creek		
TMDL Group ID:	00850		
VAN-E20R_MAP02A02	Massaponax Creek	SPOTSYLVANIA CO	Segment begins at the confluence with an unnamed tributary to Massaponax Creek, just upstream of Route 1, and continues downstream until the confluence with another unnamed tributary, approximately 0.25 rivermile upstream of Ruffins Pond.
VA Overall AU Category: 5A	Impairment	6.04 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli		00850 2006 2016 Sufficient exceedances of the instantaneous E.coli bacteria criterion (6 of 8 samples - 75.0%) were recorded at DEQ's ambient water quality monitoring station (3-MAP007.97) at the Route 1 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown	
Recreation	Fecal Coliform		00850 2004 2016 Although the data obtained during the 2006 assessment window shows exceedances of the instantaneous fecal coliform bacteria criterion (0 of 6 samples - 0.0%) is categorized as fully supporting, no additional data has been collected from the DEQ special study station (3-MAP002.61) at Route 609 bridge since the previous assessment window, when the stream reach was first listed as impaired. The segment shall remain categorized as impaired.
		Sources: Source Unknown	
TMDL Group ID:	60115		
VAN-E20R_MAP02A02	Massaponax Creek	SPOTSYLVANIA CO	Segment begins at the confluence with an unnamed tributary to Massaponax Creek, just upstream of Route 1, and continues downstream until the confluence with another unnamed tributary, approximately 0.25 rivermile upstream of Ruffins Pond.
VA Overall AU Category: 5A	Impairment	6.04 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH		60115 2006 2018 Sufficient exceedances of the instantaneous pH criterion (3 of 8 samples - 37.5%) were recorded at DEQ's ambient water quality monitoring station (3-MAP007.97) at the Route 1 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Meachim Creek		
TMDL Group ID:	00202		
VAP-E26E_MEA01A00	Meachim Creek	MIDDLESEX CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 179A, 11/17/2004.</p> <p>Expanded in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5D	Impairment	0.08 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Shellfishing	Fecal Coliform	00202	1998
			2005
			Impairment Specific Comments and/or Impairment Specific VA Category
			Category 4A
			VAP-E26E-01
			VDH shellfish condemnation 179A, 11/17/2004
			The Shellfish TMDL was completed during the 2006 cycle and approved by EPA on 11/15/2005. The segment should be considered Category 4A for Shellfish, although the EPA TMDL ID was not available at the time of assessment.
Sources: Non-Point Source			
TMDL Group ID:	00203		
VAP-E26E_MEA01B00	Meachim Creek	MIDDLESEX CO	<p>The segment is delineated in VDH shellfish condemnation 179B, 11/17/2004.</p> <p>RPPMH</p>
VA Overall AU Category: 5D	Impairment	0.03 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Shellfishing	Fecal Coliform	00203	1998
			2005
			Impairment Specific Comments and/or Impairment Specific VA Category
			Category 4A
			VAP-E26E-02
			VDH shellfish condemnation 030-179B, 11/17/2004
			This area was included in the Meachim and Whiting Creek Shellfish TMDL, which was completed during the 2006 cycle and approved by EPA on 11/15/2005. The segment should be considered Category 4A for shellfish, however the EPA TMDL ID was not available at the time of assessment.
Sources: Non-Point Source			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Mill Creek		
TMDL Group ID:	01084		
VAP-E26E_MLL01A98	Mill Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 103, 12/10/1991 RPPMH.
VA Overall AU Category: 5A	Impairment	0.12 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01084	1998 2010 VAP-E26E-11 VDH shellfish condemnation 103, 12/10/1991
Sources: Source Unknown			
TMDL Watershed Name:	Millenbeck Prong		
TMDL Group ID:	01083		
VAP-E26E_MIP01A00	Millenbeck Prong	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 187B, 3/27/2002. Size adjusted in 2006, although area did not change CRRMH
VA Overall AU Category: 5A	Impairment	0.04 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01083	1998 2010 VAP-E26E-32 VDH shellfish condemnation 187B, 3/27/2002
Sources: Source Unknown			
TMDL Watershed Name:	Morattico Creek		
TMDL Group ID:	01034		
VAP-E25E_MTT01A00	Morattico Creek	RICHMOND CO	The segment is delineated in VDH SFC 023-120A, 9/23/2004 Expanded in 2006 and incorporates previous segment MTT02A00 RPPMH
VA Overall AU Category: 5A	Impairment	0.33 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	Chloride	01034	2004 2016 VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Morattico Creek		
TMDL Group ID:	01062		
VAP-E25E_MTT01A00	Morattico Creek	RICHMOND CO	The segment is delineated in VDH SFC 023-120A, 9/23/2004 Expanded in 2006 and incorporates previous segment MTT02A00 RPPMH
VA Overall AU Category: 5A	Impairment	0.33 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Shellfishing	Fecal Coliform	01062	1998
			2010
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E25E-12
			VDH shellfish condemnation 120A, 9/23/2004
			Expanded in 2006
			Sources: Source Unknown
Mosquito Creek			
TMDL Watershed Name:	Mosquito Creek		
TMDL Group ID:	01085		
VAP-E26E_MOS01A00	Mosquito Creek	LANCASTER CO	The boundaries are delineated in VDH shellfish condemnation 203, 11/6/2003. Expanded in 2006 cycle RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Shellfishing	Fecal Coliform	01085	2002
			2014
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E26E-04
			VDH-DSS Shellfish Condemnation 203, 11/6/2003
			Sources: Source Unknown

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Mount Landing Creek		
TMDL Group ID:	01048		
VAP-E23R_MTL01A98	Mount Landing Creek	ESSEX CO	Mount Landing Creek from the first tributary upstream of the Route 716 bridge downstream to the tidal limit at approximately river mile 4.44.
VA Overall AU Category: 5A	Impairment	1.19 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01048 2004 2016	VAP-E23R-06 The segment was assessed as not supporting of the Recreation Use during the year 2004 cycle based on a fecal coliform violation rate of 4/35 at the Route 716 bridge (3-MTL004.82). During the 2006 cycle, the violation rate for FC was 0/15 and for E. coli was 1/9. Although the FC violation rate is acceptable, there has been no additional FC monitoring since 2002 and the recent E. coli monitoring is not sufficient for delisting. Therefore the segment must remain impaired based on the previous assessment until additional E. coli monitoring can be conducted.

Sources: Source Unknown

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Mountain Run		
TMDL Group ID:	00110		
VAN-E09R_MTN01A00	Mountain Run	CULPEPER CO	Segment begins at the confluence with Flat Run and continues downstream until the confluence with the Rappahannock River.
VA Overall AU Category: 5D	Impairment	7.40 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00110 2006 2001	Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 9 samples - 55.6%) were recorded at DEQ's ambient water quality monitoring station (3-MTN000.59) at the Route 620 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment has been listed for a fecal coliform impairment since 1996. A fecal coliform TMDL for the Mountain Run watershed was developed and submitted to the U.S. EPA and approved on April 27, 2001. The sources of fecal coliform bacteria requiring reductions are livestock and wildlife waste delivered directly to the stream, runoff from pastureland, manure storage areas, and urban stormwater, and human contributions from straight pipes. Segment listed as Category 4A - Federal ID 20395.
	Sources: Grazing in Riparian or Shoreline Zones Impervious Surface/Parking Lot Runoff Livestock (Grazing or Feeding Operations) Manure Runoff Runoff from Forest/Grassland/Parkland Sewage Discharges in Unsewered Areas Waterfowl Wildlife Other than Waterfowl		
Recreation	Fecal Coliform	00110 1996 2001	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (10 of 25 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-MTN000.59) at the Route 620 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. A fecal coliform TMDL for the Mountain Run watershed was developed and submitted to the U.S. EPA and approved on April 27, 2001. The sources of fecal coliform bacteria requiring reductions are livestock and wildlife waste delivered directly to the stream, runoff from pastureland, manure storage areas, and urban stormwater, and human contributions from straight pipes. Segment listed as Category 4A - Federal ID 20395.
	Sources: Grazing in Riparian or Shoreline Zones Impervious Surface/Parking Lot Runoff Livestock (Grazing or Feeding Operations) Manure Runoff Runoff from Forest/Grassland/Parkland Sewage Discharges in Unsewered Areas Waterfowl Wildlife Other than Waterfowl		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Mountain Run		
TMDL Group ID:	20021		
VAN-E09R_MTN05A04	Mountain Run	CULPEPER CO	Segment begins at the confluence with an unnamed tributary that flows from Caymore Lake and continues downstream until Lake Pelham.
VA Overall AU Category: 5A	Impairment	1.57 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	20021	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 8 samples - 62.5%) were recorded at DEQ's ambient water quality monitoring station (3-MTN027.08) at the Route 641 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources: Source Unknown		
Recreation	Fecal Coliform	20021	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 9 samples - 44.4%) were recorded at DEQ's ambient water quality monitoring station (3-MTN027.08) at the Route 641 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources: Source Unknown		
TMDL Group ID:	60096		
VAN-E17R_MTR02A02	Mountain Run	ORANGE CO	Segment begins at the headwaters of Mountain Run and continues downstream until the confluence with Mill Run.
VA Overall AU Category: 5A	Impairment	7.35 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60096	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (6 of 12 samples - 50.0%) were recorded at DEQ's special study monitoring station (3-MTR010.60) at the Route 666 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources: Source Unknown		
TMDL Group ID:	60137		
VAN-E09R_MTN01A00	Mountain Run	CULPEPER CO	Segment begins at the confluence with Flat Run and continues downstream until the confluence with the Rappahannock River.
VA Overall AU Category: 5D	Impairment	7.40 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60137	2006 2018 The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel consumption to no more than two meals per month. The affected stretch of Mountain Run extends roughly 19 miles, from the Route 15/29 bridge crossing near Culpeper City downstream until the confluence with the Rappahannock River.
	Sources: Source Unknown		

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Mountain Run		
TMDL Group ID:	60137		
VAN-E09R_MTN02A04	Mountain Run	CULPEPER CO	Segment begins at the confluence with Jonas Run and continues downstream until the confluence with Flat Run.
VA Overall AU Category: 5A	Impairment	5.30 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60137	2006 2018 The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel consumption to no more than two meals per month. The affected stretch of Mountain Run extends roughly 19 miles, from the Route 15/29 bridge crossing near Culpeper City downstream until the confluence with the Rappahannock River.
Sources: Source Unknown			
VAN-E09R_MTN03A00	Mountain Run	CULPEPER CO	Segment begins at the Route 15/29 bridge crossing and continues downstream until the confluence with Jonas Run.
VA Overall AU Category: 5A	Impairment	7.05 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60137	2006 2018 The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel consumption to no more than two meals per month. The affected stretch of Mountain Run extends roughly 19 miles, from the Route 15/29 bridge crossing near Culpeper City downstream until the confluence with the Rappahannock River.
Sources: Source Unknown			
TMDL Group ID:	60152		
VAN-E09R_MTN04A04	Mountain Run	CULPEPER CO	Segment begins at the outlet from Lake Pelham and continues downstream until the Route 15/29 bridge crossing.
VA Overall AU Category: 5A	Impairment	4.48 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	60152	2004 2016 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 8 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station (3-MTN022.49) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Mud Creek		
TMDL Group ID:	10076		
VAP-E25R_MUC01A00	Mud Creek	MIDDLESEX CO	Mud Creek from its headwaters to the extent of tidal influence.
VA Overall AU Category: 5C	Impairment	2.84 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	10076 2006 2016	VAP-E25R-01 Mud Creek was assessed as not supporting the Aquatic Life Use support goal based on a dissolved oxygen violation rate of 4/11 and a pH violation rate of 9/11 at 3-MUC002.31. The station was mistakenly classified as tidal during the 2004 cycle. Therefore, although the DO impairment was only first assigned to this segment in 2006, the TMDL due date is 2016.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Group ID:	10077		
VAP-E25R_MUC01A00	Mud Creek	MIDDLESEX CO	Mud Creek from its headwaters to the extent of tidal influence.
VA Overall AU Category: 5C	Impairment	2.84 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	10077 2006 2018	VAP-E25R-01 Mud Creek was assessed as not supporting the Aquatic Life Use support goal based on a dissolved oxygen violation rate of 4/11 and a pH violation rate of 9/11 at 3-MUC002.31.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Group ID:	10078		
VAP-E25E_MUC01A04	Mud Creek	MIDDLESEX CO	Described in VDH SFC 027-090A, 11/15/2004 RPPMH
VA Overall AU Category: 5A	Impairment	0.19 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	10078 2006 2018	VAP-E25E-06 VDH Shellfish Condemnation 027-090A, 11/15/2004 The Shellfish TMDL report for "Rappahannock River: Mud and Parrotts Creeks" was approved by EPA on 11/15/2005. However, Mud Creek was open for harvest and the monitoring station was not included in the TMDL.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Muddy Creek		
TMDL Group ID:	00851		
VAN-E21R_MUY01A00	Muddy Creek	KING GEORGE CO STAFFORD CO	Segment begins at the confluence with an unnamed tributary to Muddy Creek, approximately 0.7 rivermile downstream from Route 218, and continues downstream until the confluence with the Rappahannock River.
VA Overall AU Category: 5C	Impairment	3.87 MILES	
Use		TMDL Group ID	First Listed on 303(d) TMDL Schedule
Aquatic Life	pH	00851	2004 2016
Impairment Specific Comments and/or Impairment Specific VA Category			
Although the data obtained during the 2006 assessment window shows exceedances of the instantaneous pH criterion (1 of 4 samples - 25.0%) is categorized as not assessed, no data has been collected from the DEQ's ambient water quality monitoring station (3-MUY001.43) at Route 3 since the previous assessment window. The segment shall remain categorized as impaired.			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Mulberry Creek		
TMDL Group ID:	01063		
VAP-E25E_MUB01A02	Mulberry Creek	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 023-021A, 9/23/2004
			Size reduced in 2006
			RPPMH
VA Overall AU Category: 5A	Impairment	0.27 SQUARE MILES	
Use		TMDL Group ID	First Listed on 303(d) TMDL Schedule
Shellfishing	Fecal Coliform	01063	1998 2010
Impairment Specific Comments and/or Impairment Specific VA Category			
VAP-E25E-13			
VDH shellfish condemnation 023-121A, 9/23/2004 - Size reduced in 2006 cycle.			
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Mulberry Creek		
TMDL Group ID:	01064		
VAP-E25E_MUB01A02	Mulberry Creek	LANCASTER CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 023-021A, 9/23/2004</p> <p>Size reduced in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.27 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01064	1998 2016 VAP-E25E-13
In 2004, the segment was assessed as not supporting the Recreation Use due to a fecal coliform violation rate of 2/18 at 3-MUB000.46, located at the end of Route 748. There has been no additional monitoring since 2001. The TMDL is due in 2016. The size was adjusted in 2006 to remain coincident with the shellfish condemnation.			
Sources: Source Unknown			
TMDL Group ID:	10075		
VAP-E25E_MUB01A02	Mulberry Creek	LANCASTER CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 023-021A, 9/23/2004</p> <p>Size reduced in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.27 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	10075	2006 2018 VAP-E25E-03
Mulberry Creek was assessed as impaired of the Aquatic Life Use based on chloride violations at 3-MUB000.46.			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
Wildlife	Chloride	10075	2006 2018 VAP-E25E-03
Mulberry Creek was assessed as impaired of the Aquatic Life Use based on chloride violations at 3-MUB000.46.			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Mulberry Creek		
TMDL Group ID:	10075		
VAP-E25E_MUB02A06	Mulberry Creek	LANCASTER CO	Downstream of VDH shellfish condemnation 023-021A, 9/23/2004 Size reduced in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	0.22 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	10075	2006 2018 VAP-E25E-03 Mulberry Creek was assessed as impaired of the Aquatic Life Use based on chloride violations at 3-MUB000.46. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	Chloride	10075	2006 2018 VAP-E25E-03 Mulberry Creek was assessed as impaired of the Aquatic Life Use based on chloride violations at 3-MUB000.46. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
TMDL Group ID:	90705		
VAP-E25E_MTT01A00	Morattico Creek	RICHMOND CO	The segment is delineated in VDH SFC 023-120A, 9/23/2004 Expanded in 2006 and incorporates previous segment MTT02A00 RPPMH
VA Overall AU Category: 5A	Impairment	0.33 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Wildlife	Chloride	90705	2004 2016 VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Mussell Swamp		
TMDL Group ID:	10103		
VAP-E23R_MUS01A04	Mussell Swamp	ESSEX CO	Headwaters to tidal limit
VA Overall AU Category: 5C	Impairment	4.13 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	10103	2006 2018 VAP-E23R-12
In 2006, Mussell Swamp was assessed as impaired for the Aquatic Life Use based on a DO violation rate of 2/16 at 3-MUS001.23. Although natural conditions are suspected, the segment is assessed as Cat. 5C until the natural conditions assessment for DO can be performed.			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Myer Creek		
TMDL Group ID:	01086		
VAP-E26E_MYE01A00	Myer Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 198B, 11/6/2003.
			Size adjusted in 2006
			CRRMH
VA Overall AU Category: 5A	Impairment	0.08 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01086	1998 2010 VAP-E26E-05
VDH shellfish condemnation 21-198B, 11/6/2003			
Sources: Source Unknown			
TMDL Group ID:	01087		
VAP-E26E_MYE01B02	Myer Creek, UT	LANCASTER CO	As described in VDH-DSS SFC 21-198C, 11/6/2003.
			Size adjusted in 2006, although area did not change
			CRRMH
VA Overall AU Category: 5A	Impairment	0.04 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01087	2002 2014 VAP-E26E-31
VDH-DSS Shellfish Condemnation 21-198C, 11/6/2003			
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Myer Creek		
TMDL Group ID:	01088		
VAP-E26E_MYE01C04	Myer Creek	LANCASTER CO	Described in VDH Condemnation 21-198A, 11/6/2003 CRRMH
VA Overall AU Category: 5A			
Use	Impairment	0.05 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01088	2004 2016 VAP-E26E-36 VDH Shellfish Condemnation 21-198A, 11/6/2003
Sources: Source Unknown			
Occupacia Creek			
TMDL Watershed Name:	Occupacia Creek		
TMDL Group ID:	00255		
VAP-E22R_OCC01A98	Occupacia Creek	ESSEX CO	Occupacia Creek from Hunters Millpond downstream to the tidal limit.
VA Overall AU Category: 5A			
Use	Impairment	2.76 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00255	2006 2014 VAP-E22R-01 Occupacia Creek was initially assessed as impaired of the Recreation Use during the 2002 cycle. During the 2006 cycle, the segment remained not supporting based on a fecal coliform violation rate of 3/19 at the Route 17 bridge (3-OCC010.47). In addition, in 2006 the segment is also impaired for E. coli based on a violation rate of 2/11 at 3-OCC010.47. The bacteria TMDL is due in 2014.
Sources: Source Unknown			
Recreation	Fecal Coliform	00255	2002 2014 VAP-E22R-01 Occupacia Creek was initially assessed as impaired of the Recreation Use during the 2002 cycle. During the 2006 cycle, the segment remained not supporting based on a fecal coliform violation rate of 3/19 at the Route 17 bridge (3-OCC010.47). In addition, in 2006 the segment is also impaired for E. coli based on a violation rate of 2/11 at 3-OCC010.47. The bacteria TMDL is due in 2014.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Occupacia Creek and tributaries		
TMDL Group ID:	10111		
VAP-E22R_OCC01B06	Occupacia Creek and tributaries	ESSEX CO	Occupacia Creek from the headwaters to Hunters Millpond dam, and all tribs entering above the tidal limit.
VA Overall AU Category: 5C	Impairment 37.10 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	10111 2006 2018	VAP-E22R-03
<p>Since 2002, Occupacia Creek from the Hunters Millpond dam downstream to the tidal limit has been assessed as not supporting for the Aquatic Life Use based on pH violations at 3-OCC010.47. During the 2006 cycle, a Natural Conditions Assessment for low pH in Occupacia Creek was performed. The report recommends that the tidal Occupacia Creek watershed above the fall line (including Black Water Creek and its tribs) be reclassified as Class VII swampwaters. Until the reclassification, the watershed will be considered Cat. 4C for pH.</p> <p>The segment also shows impairment for dissolved oxygen. Although the low DO is believed to be caused by natural low-slope conditions, the segment is assessed as Cat. 5C.</p>			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Parrotts Creek		
TMDL Group ID:	00199		
VAP-E25E_PRR01A02	Parrotts Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 027-090B, 11/15/2004.
			RPPMH
VA Overall AU Category: 5D	Impairment 0.16 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	00199 1998 2005	Category 4A
<p>VAP-E25E-07</p> <p>The Shellfish TMDL report for "Rappahannock River: Mud and Parrotts Creeks" was approved by EPA on 11/15/2005. Therefore, the shellfish impairment is considered Cat. 4A.</p>			
Sources: Non-Point Source			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Piscataway Creek		
TMDL Group ID:	01029		
VAP-E23E_PIS02A00	Piscataway Creek	ESSEX CO	The estuarine portion of Piscataway Creek. RPPMH
VA Overall AU Category: 5A	Impairment	0.71 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride		01029 2004 2016 VAP-E23E-04 In the 2004 cycle, the segment was assessed not supporting of the Aquatic Life and Wildlife Uses due to chloride violations. This TMDL is due in 2016.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
Wildlife	Chloride		01029 2004 2016 VAP-E23E-04 In the 2004 cycle, the segment was also assessed not supporting of the Aquatic Life and Wildlife Uses due to chloride violations. This TMDL is due in 2016.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
TMDL Group ID:	01040		
VAP-E23E_PIS02A00	Piscataway Creek	ESSEX CO	The estuarine portion of Piscataway Creek. RPPMH
VA Overall AU Category: 5A	Impairment	0.71 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform		01040 1998 2010 VAP-E23E-01 Portion of VDH-DSS Shellfish Condemnation 068A, 3/26/2004
		Sources: Source Unknown	
TMDL Watershed Name:	Piscataway Creek, Unnamed Tributary		
TMDL Group ID:	10101		
VAP-E23R_XFN01A04	UT to Piscataway Creek	ESSEX CO	Headwaters to mouth at Piscataway Creek
VA Overall AU Category: 5C	Impairment	3.25 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved		10101 2006 2018 VAP-E23R-10 During the 2006 cycle, UT XFN was assessed as impaired of the Aquatic Life Use based on a dissolved oxygen violation rate of 2/15 at 3-XFN000.01. Natural conditions are suspected, therefore the segment is assessed as Cat. 5C until the natural conditions assessment for DO can be performed.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Piscataway Creek, Unnamed Tributary		
TMDL Group ID:	10102		
VAP-E23R_XFM01A04	UT to Piscataway Creek	ESSEX CO	Headwaters to mouth
VA Overall AU Category: 5C	Impairment	3.01 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	10102	2006 2018 VAP-E23R-11
During the 2006 cycle, UT XFM was assessed as impaired of the Aquatic Life Use based on a dissolved oxygen violation rate of 2/18 at 3-XFM000.82. Natural conditions are suspected.			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Rapidan River		
TMDL Group ID:	00320		
VAN-E18R_RAP03A02	Rapidan River	CULPEPER CO SPOTSYLVANIA CO	Segment begins at the confluence with Wilderness Run, rivermile 7.78, and continues downstream until the confluence with Middle Run.
VA Overall AU Category: 5A	Impairment	2.68 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00320	2006 2010
Sufficient exceedances of the instantaneous E.coli bacteria criterion (7 of 12 samples - 58.3%) were recorded at DEQ's ambient water quality monitoring station (3-RAP006.53) at the Route 610 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for fecal coliform, beginning in 2002.			
Sources: Source Unknown			
TMDL Group ID:	00844		
VAN-E13R_RAP01A00	Rapidan River	MADISON CO ORANGE CO	Segment begins at the confluence with Poplar Run and continues downstream until the confluence with the Robinson River.
VA Overall AU Category: 5A	Impairment	7.50 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00844	2006 2014
Sufficient exceedances of the instantaneous E.coli bacteria criterion (6 of 14 samples - 42.8%) were recorded at DEQ's ambient water quality monitoring station (3-RAP045.08) at the Route 15 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for fecal coliform bacteria impairment, beginning in 2002, but is no longer applicable since enough E.coli sampling events have occurred.			
Sources: Source Unknown			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rapidan River		
TMDL Group ID:	60082		
VAN-E12R_RAP01A00	Rapidan River	GREENE CO MADISON CO	Segment begins at the Route 29 crossing, at rivermile 66.54, and continues downstream until the confluence with White Run.
VA Overall AU Category: 5A	Impairment	2.07 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60082	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 15 samples - 26.7%) were recorded at DEQ's ambient water quality monitoring station (3-RAP066.54) at the Route 29 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
VAN-E12R_RAP01B06	Rapidan River	GREENE CO MADISON CO	Segment begins at the confluence with the Conway River and continues downstream until the Route 29 crossing, at rivermile 66.54.
VA Overall AU Category: 5A	Impairment	4.86 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60082	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 15 samples - 26.7%) were recorded at DEQ's ambient water quality monitoring station (3-RAP066.54) at the Route 29 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
TMDL Group ID:	60087		
VAN-E13R_RAP02A06	Rapidan River	MADISON CO ORANGE CO	Segment begins at the confluence with Marsh Run and continues downstream until the confluence with Blue Run.
VA Overall AU Category: 5A	Impairment	4.59 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60087	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 6 samples - 33.3%) were recorded at DEQ's ambient water quality monitoring station (3-RAP055.84) at the Route 231 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
Recreation	Fecal Coliform	60087	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 11 samples - 27.3%) were recorded at DEQ's ambient water quality monitoring station (3-RAP055.84) at the Route 231 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rapidan River		
TMDL Group ID:	60094		
VAN-E16R_RAP01A04	Rapidan River	CULPEPER CO ORANGE CO	Segment begins at the confluence with an unnamed tributary to the Rapidan River, at rivermile 34.5, approximately 0.6 rivermile downstream from Route 689, and continues downstream until the confluence with Cedar Run.
VA Overall AU Category: 5A	Impairment	4.58 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Escherichia coli	60094	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (7 of 15 - 46.7%) were recorded at DEQ's ambient water quality monitoring station (3-RAP030.21) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
TMDL Watershed Name:	Rapidan River, Unnamed Tributary		
TMDL Group ID:	00845		
VAN-E13R_XEZ01A04	Unnamed tributary to the Rapidan River	ORANGE CO	Segment begins at the headwaters of the unnamed tributary and continues downstream until the confluence with the Rapidan River.
VA Overall AU Category: 5A	Impairment	2.57 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Escherichia coli	00845	2006 2016 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 5 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-XEZ000.12) at the Route 634 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for fecal coliform bacteria impairment, beginning in 2004.
Sources: Source Unknown			
Recreation	Fecal Coliform	00845	2004 2016 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 7 samples - 42.8%) were recorded at DEQ's ambient water quality monitoring station (3-XEZ000.12) at the Route 634 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
TMDL Group ID:	60088		
VAN-E13R_XBO01A04	Unnamed tributary to Rapidan River	MADISON CO	Segment begins at the headwaters of the unnamed tributary and continues downstream until the confluence with the Rapidan River.
VA Overall AU Category: 5A	Impairment	3.91 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Fecal Coliform	60088	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (5 of 7 samples - 71.4%) were recorded at DEQ's ambient water quality monitoring station (3-XBO000.26) at the Route 621 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	01028		
VAP-E22E_RPP01A02	Rappahannock River	ESSEX CO WESTMORELAND CO	The Rappahannock River from Devils Elbow at Toby Point and Green Bay (river mile 70.52) downstream to the tidal freshwater/oligohaline boundary at river mile 57.85. RPPTF
VA Overall AU Category: 5A	Impairment	5.42 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01028	2004 2016 VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
Wildlife	Chloride	01028	2004 2016 VAP-E22E-08 Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
			Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
VAP-E22E_RPP02A02	Rappahannock River	ESSEX CO WESTMORELAND CO	The Rappahannock River from the tidal freshwater/oligohaline boundary downstream to river mile 51.04. RPPOH
VA Overall AU Category: 5A	Impairment	0.32 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01028	2004 2016 VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
Wildlife	Chloride	01028	2004 2016 VAP-E22E-08 Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
			Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	01028		
VAP-E22E_RPP03A02	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River from river mile 51.04 to river mile 49.04. RPPOH
VA Overall AU Category: 5A Use	Impairment	1.60 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01028 2004 2016	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	Chloride	01028 2004 2016	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
VAP-E22E_RPP04A02	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River from river mile 49.04 downstream to the oligohaline/mesohaline boundary at approximately river mile 48.51. RPPOH
VA Overall AU Category: 5A Use	Impairment	0.93 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01028 2004 2016	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	Chloride	01028 2004 2016	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	01028		
VAP-E22E_RPP05A02	Rappahannock River	ESSEX CO RICHMOND CO	The oligohaline/mesohaline boundary at river mile 48.51 downstream to the upstream limit of VDH shellfish condemnation area 068A in E23. 2006: incorporates old segments VAP-E22E_RPP06A02 & VAP-E23E_RPP01A00 & extended RPPMH
VA Overall AU Category: 5A	Impairment	6.95 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01028	2004 2016 VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	Chloride	01028	2004 2016 VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
VAP-E23E_RPP02A98	Rappahannock River	ESSEX CO RICHMOND CO	Mainstem Rappahannock as described in VDH shellfish condemnation 068A, 3/26/2004. Segment extended in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	5.48 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01028	2004 2016 VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	Chloride	01028	2004 2016 VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	01028		
VAP-E23E_RPP03A00	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River from the VDH shellfish condemnation 068A downstream to Sharps/0.7mi DS of Mark Haven Beach. Incorporates previous segment VAP-E24E_RPP01A98 and extended. RPPMH
VA Overall AU Category: 5A	Impairment	20.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride		01028 2004 2016 VAP-E22E-08, VAN-E20E-03, VAP-E22E-01 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
Wildlife	Chloride	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	01028 2004 2016 VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
VAP-E24E_RPP01C06	Rappahannock River	RICHMOND CO	The Rappahannock River within the VDH shellfish condemnation 025-071A, 12/22/2004 RPPMH
VA Overall AU Category: 5A	Impairment	0.16 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride		01028 2004 2016 VAP-E22E-08, VAN-E20E-03, VAP-E22E-01 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
Wildlife	Chloride	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	01028 2004 2016 VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	01028		
VAP-E24E_RPP02B06	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River as described in VDH SFC 028-M271, 4/1/1995 RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01028	2004 2016 VAP-E22E-08, VAN-E20E-03, VAP-E22E-01 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	Chloride	01028	2004 2016 VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
VAP-E25E_RPP01A02	Rappahannock River	ESSEX CO RICHMOND CO	The mainstem of the Rappahannock River from Sharps/0.7 mi DS of Mark Haven Beach to the WQS saltwater boundary at Buoy 11 near Morattico Size adjusted in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	12.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01028	2004 2016 VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	Chloride	01028	2004 2016 VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	01028		
VAP-E25E_RPP03A06	Rappahannock River	RICHMOND CO	Described in VDH SFC 024-M192, 4/1/1995 RPPMH
VA Overall AU Category: 5A	Impairment	0.01 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01028 2004 2016	VAP-E22E-08, VAN-E20E-03, VAP-E22E-01 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
Wildlife	Chloride	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed 01028 2004 2016	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
TMDL Group ID:	01041		
VAP-E23E_RPP02A98	Rappahannock River	ESSEX CO RICHMOND CO	Mainstem Rappahannock as described in VDH shellfish condemnation 068A, 3/26/2004. Segment extended in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	5.48 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01041 1998 2010	VAP-E23E-01 VDH Shellfish Condemnation 068A, 3/24/2004 Expanded in 2006
		Sources: Source Unknown	
VAP-E23E_ZZZ02A06	Unsegmented estuaries in E23	ESSEX CO RICHMOND CO	Unsegmented portion within SFC 068A, 3/26/2004 RPPMH
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01041 2006 2010	VAP-E23E-01 VDH Shellfish Condemnation 068A, 3/26/2004
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:		Rappahannock River	
TMDL Group ID:		01089	
VAP-E26E_RPP02A00	Rappahannock River	MIDDLESEX CO	The Rappahannock River in the area delineated in VDH shellfish condemnation 051A. Size corrected in 2006 cycle. RPPMH
VA Overall AU Category: 5A	Impairment	0.13 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01089	1998 2010 VAP-E26E-22 VDH Shellfish Condemnation 051A, 9/10/1997
Sources: Source Unknown			
TMDL Group ID:		01090	
VAP-E26E_RPP04A00	Rappahannock River	MIDDLESEX CO	VDH Shellfish Condemnation 051B, 9/10/1997 Sq. mileage adjusted in 2006, although area did not change RPPMH
VA Overall AU Category: 5A	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01090	1998 2010 VAP-E26E-23 VDH Shellfish Condemnation 051B, 9/10/1997
Sources: Source Unknown			
TMDL Group ID:		01091	
VAP-E26E_RPP07A02	Rappahannock River	LANCASTER CO	As delineated in VDH-DSS SFC 053A, 9/16/1993 RPPMH.
VA Overall AU Category: 5A	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01091	2002 2014 VAP-E26E-28 VDH-DSS Shellfish Condemnation 053A, 9/16/1993
Sources: Municipal Point Source Discharges			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10069		
VAP-E22E_RPP01A02	Rappahannock River	ESSEX CO WESTMORELAND CO	The Rappahannock River from Devils Elbow at Toby Point and Green Bay (river mile 70.52) downstream to the tidal freshwater/oligohaline boundary at river mile 57.85.
			RPPTF
VA Overall AU Category: 5A	Impairment	5.42 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10069	2006 2010 VAN-E20E-02
			The tidal freshwater Rappahannock failed the SAV acreage requirements of the Shallow Water subuse during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10069	2006 2010 VAN-E20E-02
			The tidal freshwater Rappahannock failed the SAV acreage requirements of the Shallow Water Use during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10069		
VAP-E22E_ZZZ01A00	Unsegmented estuaries in E22	ESSEX CO WESTMORELAND CO	Unsegmented portion of watershed. RPPTF
VA Overall AU Category: 5A	Impairment	0.29 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10069 2006 2010	VAN-E20E-02 The tidal freshwater Rappahannock River failed the SAV acreage requirements for the Shallow Water Use during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10069 2006 2010	VAN-E20E-02 The tidal freshwater Rappahannock River failed the SAV acreage requirements for the Shallow Water Use during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10070		
VAP-E22E_RPP01A02	Rappahannock River	ESSEX CO WESTMORELAND CO	The Rappahannock River from Devils Elbow at Toby Point and Green Bay (river mile 70.52) downstream to the tidal freshwater/oligohaline boundary at river mile 57.85. RPPTF
VA Overall AU Category: 5A Use	Impairment	5.42 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	10070	2006 2018 VAN-E20E-03 The Rappahannock River from the I-95 bridge above Fredericksburg to the mouth near Stingray Point is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.
Sources: Source Unknown			
VAP-E22E_RPP02A02	Rappahannock River	ESSEX CO WESTMORELAND CO	The Rappahannock River from the tidal freshwater/oligohaline boundary downstream to river mile 51.04. RPPOH
VA Overall AU Category: 5A Use	Impairment	0.32 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	10070	2006 2018 VAN-E20E-03 The Rappahannock River from the I-95 bridge above Fredericksburg to the mouth near Stingray Point is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.
Sources: Source Unknown			
VAP-E22E_RPP03A02	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River from river mile 51.04 to river mile 49.04. RPPOH
VA Overall AU Category: 5A Use	Impairment	1.60 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	10070	2006 2018 VAN-E20E-03 The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.
Sources: Source Unknown			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10070		
VAP-E22E_RPP04A02	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River from river mile 49.04 downstream to the oligohaline/mesohaline boundary at approximately river mile 48.51. RPPOH
VA Overall AU Category: 5A	Impairment	0.93 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	10070	2006 2018 VAN-E20E-03
Sources: Source Unknown			
VAP-E22E_RPP05A02	Rappahannock River	ESSEX CO RICHMOND CO	The oligohaline/mesohaline boundary at river mile 48.51 downstream to the upstream limit of VDH shellfish condemnation area 068A in E23. 2006: incorporates old segments VAP-E22E_RPP06A02 & VAP-E23E_RPP01A00 & extended RPPMH
VA Overall AU Category: 5A	Impairment	6.95 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	10070	2006 2018 VAN-E20E-03
Sources: Source Unknown			
VAP-E23E_RPP02A98	Rappahannock River	ESSEX CO RICHMOND CO	Mainstem Rappahannock as described in VDH shellfish condemnation 068A, 3/26/2004. Segment extended in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	5.48 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	10070	2006 2018 VAN-E20E-03
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10070		
VAP-E23E_RPP03A00	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River from the VDH shellfish condemnation 068A downstream to Sharps/0.7mi DS of Mark Haven Beach. Incorporates previous segment VAP-E24E_RPP01A98 and extended. RPPMH
VA Overall AU Category: Use	5A		
Fish Consumption	Impairment	20.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
	PCB in Fish Tissue	10070	2006 2018 VAN-E20E-03
			The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.
		Sources: Source Unknown	
VAP-E24E_RPP01C06	Rappahannock River	RICHMOND CO	The Rappahannock River within the VDH shellfish condemnation 025-071A, 12/22/2004 RPPMH
VA Overall AU Category: Use	5A		
Fish Consumption	Impairment	0.16 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
	PCB in Fish Tissue	10070	2006 2018 VAN-E20E-03
			The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.
		Sources: Source Unknown	
VAP-E24E_RPP02B06	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River as described in VDH SFC 028-M271, 4/1/1995 RPPMH
VA Overall AU Category: Use	5A		
Fish Consumption	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
	PCB in Fish Tissue	10070	2006 2018 VAN-E20E-03
			The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10070		
VAP-E25E_RPP01A02	Rappahannock River	ESSEX CO RICHMOND CO	The mainstem of the Rappahannock River from Sharps/0.7 mi DS of Mark Haven Beach to the WQS saltwater boundary at Buoy 11 near Morattico Size adjusted in 2006 RPPMH
VA Overall AU Category: Use	5A	Impairment	12.20 SQUARE MILES
Fish Consumption	PCB in Fish Tissue	TMDL Group ID	10070
		First Listed on 303(d)	2006
		TMDL Schedule	2018
		Impairment Specific Comments and/or Impairment Specific VA Category	
		VAN-E20E-03	
		The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.	
		Sources: Source Unknown	
VAP-E25E_RPP02A02	Rappahannock River	LANCASTER CO MIDDLESEX CO	The mainstem of the Rappahannock River from Buoy 11 near Morattico downstream to the mouth, excluding area in SFC 051A. Multiple Rappahannock segments merged together in 2006 RPPMH
VA Overall AU Category: Use	5A	Impairment	66.80 SQUARE MILES
Fish Consumption	PCB in Fish Tissue	TMDL Group ID	10070
		First Listed on 303(d)	2006
		TMDL Schedule	2010
		Impairment Specific Comments and/or Impairment Specific VA Category	
		VAN-E20E-03	
		The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.	
		Sources: Source Unknown	
VAP-E25E_RPP03A06	Rappahannock River	RICHMOND CO	Described in VDH SFC 024-M192, 4/1/1995 RPPMH
VA Overall AU Category: Use	5A	Impairment	0.01 SQUARE MILES
Fish Consumption	PCB in Fish Tissue	TMDL Group ID	10070
		First Listed on 303(d)	2006
		TMDL Schedule	2018
		Impairment Specific Comments and/or Impairment Specific VA Category	
		VAN-E20E-03	
		The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.	
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10070		
VAP-E26E_RPP02A00	Rappahannock River	MIDDLESEX CO	<p>The Rappahannock River in the area delineated in VDH shellfish condemnation 051A.</p> <p>Size corrected in 2006 cycle.</p> <p>RPPMH</p>
VA Overall AU Category: Use	5A		
Fish Consumption	<p>Impairment</p> <p>PCB in Fish Tissue</p>	<p>0.13 SQUARE MILES</p> <p>TMDL Group ID</p> <p>10070</p> <p>First Listed on 303(d)</p> <p>2006</p> <p>TMDL Schedule</p> <p>2018</p>	<p>Impairment Specific Comments and/or Impairment Specific VA Category</p> <p>VAN-E20E-03</p> <p>The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.</p>
Sources: Source Unknown			
VAP-E26E_RPP03A00	Rappahannock River	MIDDLESEX CO	<p>The Rappahannock River in the area delineated in VDH shellfish condemnation 051D, 9/10/1997.</p> <p>RPPMH</p>
VA Overall AU Category: Use	5A		
Fish Consumption	<p>Impairment</p> <p>PCB in Fish Tissue</p>	<p>0.03 SQUARE MILES</p> <p>TMDL Group ID</p> <p>10070</p> <p>First Listed on 303(d)</p> <p>2006</p> <p>TMDL Schedule</p> <p>2018</p>	<p>Impairment Specific Comments and/or Impairment Specific VA Category</p> <p>VAN-E20E-03</p> <p>The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.</p>
Sources: Source Unknown			
VAP-E26E_RPP04A00	Rappahannock River	MIDDLESEX CO	<p>VDH Shellfish Condemnation 051B, 9/10/1997</p> <p>Sq. mileage adjusted in 2006, although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: Use	5A		
Fish Consumption	<p>Impairment</p> <p>PCB in Fish Tissue</p>	<p>0.02 SQUARE MILES</p> <p>TMDL Group ID</p> <p>10070</p> <p>First Listed on 303(d)</p> <p>2006</p> <p>TMDL Schedule</p> <p>2018</p>	<p>Impairment Specific Comments and/or Impairment Specific VA Category</p> <p>VAN-E20E-03</p> <p>The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.</p>
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10070		
VAP-E26E_RPP05A00	Rappahannock River	MIDDLESEX CO	The area delineated in VDH shellfish condemnation 051E, 9/10/1997 RPPMH.
VA Overall AU Category: 5A	Impairment	0.14 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Fish Consumption	PCB in Fish Tissue	10070	2006 2018 VAN-E20E-03
Sources: Source Unknown			
VAP-E26E_RPP07A02	Rappahannock River	LANCASTER CO	As delineated in VDH-DSS SFC 053A, 9/16/1993 RPPMH.
VA Overall AU Category: 5A	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Fish Consumption	PCB in Fish Tissue	10070	2002 2018 VAN-E20E-03
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10126		
VAP-E22E_RPP05A02	Rappahannock River	ESSEX CO RICHMOND CO	The oligohaline/mesohaline boundary at river mile 48.51 downstream to the upstream limit of VDH shellfish condemnation area 068A in E23. 2006: incorporates old segments VAP-E22E_RPP06A02 & VAP-E23E_RPP01A00 & extended RPPMH
VA Overall AU Category: 5A	Impairment	6.95 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126) In 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen and the benthic impairment was treated as a confirmation of the impairment. The mainstem remains impaired for dissolved oxygen in the 2006 cycle, however the segment is now also 303(d) listed for estuarine bioassessments based on the EPA independent application guidelines . The source of the estuarine bioassessment impairment is considered unknown, but is believed to be caused by low dissolved oxygen in the bottom waters of the river."
Sources: Source Unknown			
VAP-E23E_RPP02A98	Rappahannock River	ESSEX CO RICHMOND CO	Mainstem Rappahannock as described in VDH shellfish condemnation 068A, 3/26/2004. Segment extended in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	5.48 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126) In 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen and the benthic impairment was treated as a confirmation of the impairment. The mainstem remains impaired for dissolved oxygen in the 2006 cycle, however the segment is now also 303(d) listed for estuarine bioassessments based on the EPA independent application guidelines . The source of the estuarine bioassessment impairment is considered unknown, but is believed to be caused by low dissolved oxygen in the bottom waters of the river."
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10126		
VAP-E23E_RPP03A00	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River from the VDH shellfish condemnation 068A downstream to Sharps/0.7mi DS of Mark Haven Beach. Incorporates previous segment VAP-E24E_RPP01A98 and extended. RPPMH
VA Overall AU Category: 5A	Impairment	20.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126)
Sources: Source Unknown			
VAP-E24E_RPP01C06	Rappahannock River	RICHMOND CO	The Rappahannock River within the VDH shellfish condemnation 025-071A, 12/22/2004 RPPMH
VA Overall AU Category: 5A	Impairment	0.16 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126)
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10126		
VAP-E24E_RPP02B06	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River as described in VDH SFC 028-M271, 4/1/1995 RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126)
Sources: Source Unknown			
VAP-E25E_RPP01A02	Rappahannock River	ESSEX CO RICHMOND CO	The mainstem of the Rappahannock River from Sharps/0.7 mi DS of Mark Haven Beach to the WQS saltwater boundary at Buoy 11 near Morattico Size adjusted in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	12.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126)
Sources: Source Unknown			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10126		
VAP-E25E_RPP02A02	Rappahannock River	LANCASTER CO MIDDLESEX CO	The mainstem of the Rappahannock River from Buoy 11 near Morattico downstream to the mouth, excluding area in SFC 051A. Multiple Rappahannock segments merged together in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	66.80 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126) In 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen and the benthic impairment was treated as a confirmation of the impairment. The mainstem remains impaired for dissolved oxygen in the 2006 cycle, however the segment is now also 303(d) listed for estuarine bioassessments based on the EPA independent application guidelines . The source of the estuarine bioassessment impairment is considered unknown, but is believed to be caused by low dissolved oxygen in the bottom waters of the river.
Sources: Source Unknown			
VAP-E25E_RPP03A06	Rappahannock River	RICHMOND CO	Described in VDH SFC 024-M192, 4/1/1995 RPPMH
VA Overall AU Category: 5A	Impairment	0.01 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126) In 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen and the benthic impairment was treated as a confirmation of the impairment. The mainstem remains impaired for dissolved oxygen in the 2006 cycle, however the segment is now also 303(d) listed for estuarine bioassessments based on the EPA independent application guidelines . The source of the estuarine bioassessment impairment is considered unknown, but is believed to be caused by low dissolved oxygen in the bottom waters of the river.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10126		
VAP-E26E_RPP02A00	Rappahannock River	MIDDLESEX CO	<p>The Rappahannock River in the area delineated in VDH shellfish condemnation 051A.</p> <p>Size corrected in 2006 cycle.</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.13 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126)
Sources: Source Unknown			
VAP-E26E_RPP03A00	Rappahannock River	MIDDLESEX CO	<p>The Rappahannock River in the area delineated in VDH shellfish condemnation 051D, 9/10/1997.</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126)
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10126		
VAP-E26E_RPP04A00	Rappahannock River	MIDDLESEX CO	VDH Shellfish Condemnation 051B, 9/10/1997 Sq. mileage adjusted in 2006, although area did not change RPPMH
VA Overall AU Category: 5A	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126) In 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen and the benthic impairment was treated as a confirmation of the impairment. The mainstem remains impaired for dissolved oxygen in the 2006 cycle, however the segment is now also 303(d) listed for estuarine bioassessments based on the EPA independent application guidelines . The source of the estuarine bioassessment impairment is considered unknown, but is believed to be caused by low dissolved oxygen in the bottom waters of the river.
Sources: Source Unknown			
VAP-E26E_RPP05A00	Rappahannock River	MIDDLESEX CO	The area delineated in VDH shellfish condemnation 051E, 9/10/1997 RPPMH.
VA Overall AU Category: 5A	Impairment	0.14 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126) In 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen and the benthic impairment was treated as a confirmation of the impairment. The mainstem remains impaired for dissolved oxygen in the 2006 cycle, however the segment is now also 303(d) listed for estuarine bioassessments based on the EPA independent application guidelines . The source of the estuarine bioassessment impairment is considered unknown, but is believed to be caused by low dissolved oxygen in the bottom waters of the river.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River		
TMDL Group ID:	10126		
VAP-E26E_RPP07A02	Rappahannock River	LANCASTER CO	As delineated in VDH-DSS SFC 053A, 9/16/1993 RPPMH.
VA Overall AU Category: 5A	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	10126	2006 2018 VAP-E22E-02 (10126) In 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen and the benthic impairment was treated as a confirmation of the impairment. The mainstem remains impaired for dissolved oxygen in the 2006 cycle, however the segment is now also 303(d) listed for estuarine bioassessments based on the EPA independent application guidelines . The source of the estuarine bioassessment impairment is considered unknown, but is believed to be caused by low dissolved oxygen in the bottom waters of the river.
Sources: Source Unknown			
TMDL Watershed Name:	Rappahannock River and Totuskey Creek		
TMDL Group ID:	01053		
VAP-E24E_RPP01C06	Rappahannock River	RICHMOND CO	The Rappahannock River within the VDH shellfish condemnation 025-071A, 12/22/2004 RPPMH
VA Overall AU Category: 5A	Impairment	0.16 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01053	2006 2010 VAP-E24E-06/VAP-E24E-02 Previous condemnations included Totuskey and Richardson Creeks. In 2004, the segment was shortened and the creeks were separated. However, in 2006 the segments were both recombined under 025-071A, 12/22/2004 and extended into the Rappahannock (see VAP-E24E-06)
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River and Totuskey Creek		
TMDL Group ID:	01053		
VAP-E24E_TOT02A00	Totuskey Creek	RICHMOND CO	Downstream of VDH shellfish condemnation 025-071B, 12/22/2004 (within 025-071A, 12/22/2004). RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.75 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01053	1998 2010 VAP-E24E-01 Portion of VDH condemnation 025-071A, 12/22/2004 Previous condemnations included Totuskey and Richardson Creeks. In 2004, the segment was shortened and the creeks were separated. However, in 2006 the segments were both recombined under 025-071A, 12/22/2004 and extended into the Rappahannock (see VAP-E24E-06)
Sources: Municipal Point Source Discharges Source Unknown			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E22E_RPP05A02	Rappahannock River	ESSEX CO RICHMOND CO	<p>The oligohaline/mesohaline boundary at river mile 48.51 downstream to the upstream limit of VDH shellfish condemnation area 068A in E23.</p> <p>2006: incorporates old segments VAP-E22E_RPP06A02 & VAP-E23E_RPP01A00 & extended</p> <p>RPPMH</p>
VA Overall AU Category: Use	5A		
Aquatic Life	Impairment Oxygen, Dissolved	6.95 SQUARE MILES TMDL Group ID 01776 First Listed on 303(d) 2004 TMDL Schedule 2010	Impairment Specific Comments and/or Impairment Specific VA Category VAP-E22E-01 <p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.</p> <p>In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2004 2010	VAP-E22E-01 <p>The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders</p>

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776	Sources: Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
VAP-E22E_ZZZ02A06	Unsegmented estuaries in E22	ESSEX CO WESTMORELAND CO	Unsegmented portion of watershed. RPPMH
VA Overall AU Category: 5A	Impairment	0.04 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E23E_CAT01A02	Cat Point Creek	RICHMOND CO	The tidal portion of Cat Point Creek. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	1.43 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E23E_HOK01A98	Hoskins Creek	ESSEX CO	Hoskins Creek from the Town of Tappahannock STP downstream to the mouth at the Rappahannock River. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E23E_LIE01A98	Little Carter Creek, Jugs Creek	RICHMOND CO	The segment boundaries are defined in VDH shellfish condemnation 068B, 3/6/2002. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.32 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E23E_PIS02A00	Piscataway Creek	ESSEX CO	The estuarine portion of Piscataway Creek. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.71 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E23E_RPP02A98	Rappahannock River	ESSEX CO RICHMOND CO	Mainstem Rappahannock as described in VDH shellfish condemnation 068A, 3/26/2004. Segment extended in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	5.48 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2004 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. The mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2004 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. The mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E23E_RPP03A00	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River from the VDH shellfish condemnation 068A downstream to Sharps/0.7mi DS of Mark Haven Beach. Incorporates previous segment VAP-E24E_RPP01A98 and extended. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	20.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2004 2010 VAP-E22E-01
			<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.</p> <p>In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.</p>
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2004 2010 VAP-E22E-01
			<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.</p>
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776	Sources: Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
VAP-E23E_ZZZ01A00	Unsegmented estuaries in E23	ESSEX CO RICHMOND CO	Unsegmented portion RPPMH
VA Overall AU Category: 5A	Impairment	0.00 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E23E_ZZZ01A06	Unsegmented estuaries in E23	ESSEX CO RICHMOND CO	Unsegmented portion within 068B & 068C, 3/26/2004 RPPMH
VA Overall AU Category: 5A	Impairment	0.21 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E23E_ZZZ02A06	Unsegmented estuaries in E23	ESSEX CO RICHMOND CO	Unsegmented portion within SFC 068A, 3/26/2004 RPPMH
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID
Use		First Listed on 303(d)	TMDL Schedule
Aquatic Life	Oxygen, Dissolved	01776	2006
			2010
			VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture
			Atmospheric Deposition - Nitrogen
			Industrial Point Source Discharge
			Internal Nutrient Recycling
			Loss of Riparian Habitat
			Municipal Point Source Discharges
			Sources Outside State Jurisdiction or Borders
			Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006
			2010
			VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture
			Atmospheric Deposition - Nitrogen
			Industrial Point Source Discharge
			Internal Nutrient Recycling
			Loss of Riparian Habitat
			Municipal Point Source Discharges
			Sources Outside State Jurisdiction or Borders
			Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E24E_RIC01A04	Richardson Creek	RICHMOND CO	Tidal limit to mouth (within SFC 025-071A, 12/22/2004) RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.15 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E24E_RPP01B98	Garrett's Marina	ESSEX CO	The segment boundaries are delineated in VDH shellfish condemnation 181A, 11/6/1995. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.00 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E24E_RPP01C06	Rappahannock River	RICHMOND CO	The Rappahannock River within the VDH shellfish condemnation 025-071A, 12/22/2004 RPPMH
VA Overall AU Category: 5A	Impairment	0.16 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2004 2010 VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2004 2010 VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
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Rappahannock River Basin

TMDL Watershed Name:

Rappahannock River Mesohaline Embayments

TMDL Group ID:

01776

- Sources:
- Internal Nutrient Recycling
 - Loss of Riparian Habitat
 - Municipal Point Source Discharges
 - Sources Outside State Jurisdiction or Borders
 - Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E24E_RPP02B06	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River as described in VDH SFC 028-M271, 4/1/1995 RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2004 2010	VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2004 2010	VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:		Rappahannock River Mesohaline Embayments	
TMDL Group ID:		01776	
Sources: Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
VAP-E24E_TOT01A00	Totuskey Creek	RICHMOND CO	The segment boundary is delineated in VDH condemnation 071B, 12/22/2004. Sq. mileage adjusted in 2006, although area did not change RPPMH
VA Overall AU Category: 5A	Impairment	0.36 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E24E_TOT02A00	Totuskey Creek	RICHMOND CO	Downstream of VDH shellfish condemnation 025-071B, 12/22/2004 (within 025-071A, 12/22/2004). RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.75 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_DEE01A04	Deep Creek	LANCASTER CO	Described in VDH shellfish condemnation 023-121B, 9/23/2004. In 2002, Deep Creek was split into 3 segments. In 2004, the condemnation was expanded and the segments were joined. Size adjusted in 2006. RPPMH
VA Overall AU Category: 5A	Impairment	0.22 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_FAM01A98	Farnham Creek	RICHMOND CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 070, 10/17/2000</p> <p>Sq. mileage adjusted in 2006 although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.41 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_GEE01A98	Greenvale Creek	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 094A, 2/5/2003. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.08 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_GEE02A06	Greenvale Creek	LANCASTER CO	Described in VDH SFC 094B, 2/5/2003
			RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.01 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_HRY01A06	Harry George Creek	MIDDLESEX CO	Designated in VDH SFC 202B, 9/3/2003 RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.09 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_LAN01A98	Lancaster Creek	LANCASTER CO RICHMOND CO	The segment boundaries are delineated in VDH SFC 120B, 9/23/2004. Size reduced in 2006 cycle. RPPMH
VA Overall AU Category: 5A	Impairment	0.46 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_LAN02A02	Lancaster Creek	LANCASTER CO RICHMOND CO	The mouth of Lancaster Creek downstream of VDH SFC 120B, 9/23/2004, not otherwise segmented. Size increased in 2006 cycle. RPPMH
VA Overall AU Category: 5A	Impairment	1.16 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_LAN03A06	Lancaster Creek	RICHMOND CO	Described in VDH SFC 023-120M1, 9/23/2004 Size increased in 2006 cycle. RPPMH
VA Overall AU Category: 5A	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_LGG01A98	Lagrange Creek	MIDDLESEX CO	As described in VDH SFC 127, 6/11/1996. RPPMH
VA Overall AU Category: 5D			
Use	Impairment	0.60 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved		01776 2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved		01776 2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_LGG02A06	Lagrange Creek	MIDDLESEX CO	As described in VDH SFC 127, 2/25/2004, not otherwise segmented. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.60 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved		01776 2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved		01776 2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_MAO01A00	Masons Mill Swamp	MIDDLESEX CO	Tidal Masons Mill Swamp watershed - expanded in 2006. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.17 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_MTT01A00	Morattico Creek	RICHMOND CO	The segment is delineated in VDH SFC 023-120A, 9/23/2004 Expanded in 2006 and incorporates previous segment MTT02A00 RPPMH
VA Overall AU Category: 5A	Impairment	0.33 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_MUB01A02	Mulberry Creek	LANCASTER CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 023-021A, 9/23/2004</p> <p>Size reduced in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.27 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_MUB02A06	Mulberry Creek	LANCASTER CO	Downstream of VDH shellfish condemnation 023-021A, 9/23/2004 Size reduced in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	0.22 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_MUC01A04	Mud Creek	MIDDLESEX CO	Described in VDH SFC 027-090A, 11/15/2004 RPPMH
VA Overall AU Category: 5A	Impairment	0.19 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2004 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2004 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_PAY01A02	Paynes Creek	LANCASTER CO	As delineated in VDH-DSS SFC 114, 4/27/1989. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.04 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_PRR01A02	Parrotts Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 027-090B, 11/15/2004. RPPMH
VA Overall AU Category: 5D	Impairment	0.16 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_ROS01A00	Robinson Creek	MIDDLESEX CO	Boundaries delineated in VDH shellfish condemnation 177, 5/28/1997. RPPMH
VA Overall AU Category: 5D			
Use	Impairment	0.18 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_ROS02A04	Robinson Creek	MIDDLESEX CO	Described in VDH Shellfish Condemnation 177, 2/25/2004, not otherwise segmented Extended in 2006 cycle RPPMH
VA Overall AU Category: 5A	Impairment	0.29 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_RPP01A02	Rappahannock River	ESSEX CO RICHMOND CO	The mainstem of the Rappahannock River from Sharps/0.7 mi DS of Mark Haven Beach to the WQS saltwater boundary at Buoy 11 near Morattico Size adjusted in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	12.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	1998 2010 VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006. In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Deep-Water Aquatic Life	Oxygen, Dissolved	01776	1998 2010 VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.
		Sources: Agriculture	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
Open-Water Aquatic Life	Oxygen, Dissolved	01776 1998 2010	VAP-E22E-01
		Sources: Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.</p>
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_RPP01C98	Rappahannock River - Mark Haven Beach	ESSEX CO	The segment boundaries are delineated in VDH shellfish condemnation 026-181B, 11/6/1996. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.01 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_RPP02A02	Rappahannock River	LANCASTER CO MIDDLESEX CO	<p>The mainstem of the Rappahannock River from Buoy 11 near Morattico downstream to the mouth, excluding area in SFC 051A.</p> <p>Multiple Rappahannock segments merged together in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	66.80 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	1998 2010 VAP-E22E-01
			<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water applicable dissolved oxygen criteria in 2006.</p> <p>In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.</p>
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Deep-Water Aquatic Life	Oxygen, Dissolved	01776	1998 2010 VAP-E22E-01
			<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.</p>
		Sources: Agriculture	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
Open-Water Aquatic Life	Oxygen, Dissolved	01776 1998 2010	VAP-E22E-01
		Sources: Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.</p>
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_RPP03A06	Rappahannock River	RICHMOND CO	Described in VDH SFC 024-M192, 4/1/1995 RPPMH
VA Overall AU Category: 5A	Impairment	0.01 SQUARE MILES	TMDL Group ID
Use		First Listed on 303(d)	TMDL Schedule
Aquatic Life	Oxygen, Dissolved	01776	2004
			2010
			VAP-E22E-01
			The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.
			In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.
		Sources: Agriculture	
		Atmospheric Deposition - Nitrogen	
		Industrial Point Source Discharge	
		Internal Nutrient Recycling	
		Loss of Riparian Habitat	
		Municipal Point Source Discharges	
		Sources Outside State Jurisdiction or Borders	
		Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2004
			2010
			VAP-E22E-01
			The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture	
		Atmospheric Deposition - Nitrogen	
		Industrial Point Source Discharge	
		Internal Nutrient Recycling	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776	Sources: Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
VAP-E25E_URB01A00	Urbanna Creek	MIDDLESEX CO	As described in VDH-DSS SFC 42B, 9/17/1993. Sq. mileage adjusted in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	0.22 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_URB02A00	Urbanna Creek	MIDDLESEX CO	As delineated in VDH shellfish condemnation 042A, 9/17/1993. Sq. mileage adjusted in 2006 RPPMH
VA Overall AU Category: 5D	Impairment	0.24 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_WEE01A00	Weeks Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 202, 10/8/1996. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.12 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_WEE02A04	Weeks Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 202A, 9/3/2003, not otherwise delineated. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E25E_XDV01A02	Beach Creek	LANCASTER CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 116A, 12/27/2004.</p> <p>Expanded in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.11 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Also, applicable areas failed the deep water and deep channel dissolved oxygen criteria in 2006.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Deep-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The mesohaline portion of the Rappahannock failed the deep water dissolved oxygen criteria in 2006.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776	Sources: Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
VAP-E25E_ZZZ01A00	Unsegmented estuaries in E25	ESSEX CO RICHMOND CO	Unsegmented portion of watershed RPPMH
VA Overall AU Category: 5A	Impairment	0.24 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_BPC01A98	Rappahannock River: Bush Park Creek	MIDDLESEX CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 109, 4/27/1989.</p> <p>Size adjusted in 2006, although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_BRD01A00	Broad Creek	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038B, 12/30/2004. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.08 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_BRD02A00	Broad Creek	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038A, 12/30/2004. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_BRD03A00	Broad Creek	MIDDLESEX CO	<p>The boundaries are defined in VDH shellfish condemnation 033-038C, 12/30/2004.</p> <p>Sq. mileage adjusted in 2006, although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_BRD04A00	Broad Creek	MIDDLESEX CO	Described in VDH-DSS condemnation 033-038M1, 12/3/2004 Size reduced in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_CEB01A00	Eastern Branch Carter Creek	LANCASTER CO	<p>The boundaries are delineated in VDH shellfish condemnation 041A, 12/17/2004.</p> <p>Segment was expanded in 2006 cycle and now incorporates CEB02A00 (Bridge Cove), which was previously open.</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.25 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_CTR01A00	Carter Creek	LANCASTER CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 041D, 12/17/2004.</p> <p>Size adjusted in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_CTR02A00	Carter Creek	LANCASTER CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 041B, 12/17/2004.</p> <p>Size adjusted in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_CTR03A00	Carter Creek, Eastern Branch Carter Creek	LANCASTER CO	As described in VDH-DSS SFC 020-041M1, 12/17/2006 Segment was shortened in 2006 cycle. RPPMH
VA Overall AU Category: 5A	Impairment	0.36 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_CTR04A02	Carter Cove	LANCASTER CO	As described in VDH-DSS SFC 020-041C, 12/17/2004
			RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved		01776 2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved		01776 2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_LOL01A02	Locklies Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 102A, 2/6/2004. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_LOL02A06	Locklies Creek	MIDDLESEX CO	Described in VDH-DSS SFC 031-102B, 2/6/2004
			RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.09 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved		01776 2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved		01776 2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_MEA01A00	Meachim Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 179A, 11/17/2004. Expanded in 2006 RPPMH
VA Overall AU Category: 5D	Impairment	0.08 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_MEA01A06	Meachim Creek	MIDDLESEX CO	Described in VDH SFC 030-179A, 12/9/1996, not otherwise segmented. RPPMH
VA Overall AU Category: 5D	Impairment	0.05 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_MEA01B00	Meachim Creek	MIDDLESEX CO	The segment is delineated in VDH shellfish condemnation 179B, 11/17/2004. RPPMH
VA Overall AU Category: 5D			
Use	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_MEA01C06	Meachim Creek	MIDDLESEX CO	Described in VDH SFC 030-179M1, 11/17/2004. RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_MEA02A00	Meachim Creek	MIDDLESEX CO	Downstream of VDH SFC 030-179A, 11/17/2004, not otherwise segmented. RPPMH
VA Overall AU Category: 5A	Impairment	0.14 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_MLL01A98	Mill Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 103, 12/10/1991 RPPMH.
VA Overall AU Category: 5A			
Use	Impairment	0.12 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_MLL02A06	Mill Creek	MIDDLESEX CO	Downstream of VDH shellfish condemnation 103, 12/10/1991 RPPMH.
VA Overall AU Category: 5A			
Use	Impairment	0.36 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved		01776 2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved		01776 2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_MOS01A00	Mosquito Creek	LANCASTER CO	<p>The boundaries are delineated in VDH shellfish condemnation 203, 11/6/2003.</p> <p>Expanded in 2006 cycle</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			<p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_RPP02A00	Rappahannock River	MIDDLESEX CO	<p>The Rappahannock River in the area delineated in VDH shellfish condemnation 051A.</p> <p>Size corrected in 2006 cycle.</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.13 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	1998 2010 VAP-E22E-01
<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.</p> <p>In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.</p>			
<p>Sources: Agriculture</p> <p>Atmospheric Deposition - Nitrogen</p> <p>Industrial Point Source Discharge</p> <p>Internal Nutrient Recycling</p> <p>Loss of Riparian Habitat</p> <p>Municipal Point Source Discharges</p> <p>Sources Outside State Jurisdiction or Borders</p> <p>Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>			

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Assessment Unit ID	Waterbody Name	City / County			Assessment Unit Description
Rappahannock River Basin					
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments				
TMDL Group ID:	01776				
Open-Water Aquatic Life	Oxygen, Dissolved	01776	1998	2010	VAP-E22E-01
<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.</p> <p>In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>					

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_RPP03A00	Rappahannock River	MIDDLESEX CO	The Rappahannock River in the area delineated in VDH shellfish condemnation 051D, 9/10/1997. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 1998 2010	VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.
Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

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Assessment Unit ID	Waterbody Name	City / County			Assessment Unit Description
Rappahannock River Basin					
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments				
TMDL Group ID:	01776				
Open-Water Aquatic Life	Oxygen, Dissolved	01776	1998	2010	VAP-E22E-01
<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.</p> <p>In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>					

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_RPP04A00	Rappahannock River	MIDDLESEX CO	VDH Shellfish Condemnation 051B, 9/10/1997
			Sq. mileage adjusted in 2006, although area did not change
			RPPMH
VA Overall AU Category: 5A	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	1998 2010 VAP-E22E-01
			The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.
			In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County			Assessment Unit Description
Rappahannock River Basin					
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments				
TMDL Group ID:	01776				
Open-Water Aquatic Life	Oxygen, Dissolved	01776	1998	2010	VAP-E22E-01
<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.</p> <p>In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>					

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_RPP05A00	Rappahannock River	MIDDLESEX CO	The area delineated in VDH shellfish condemnation 051E, 9/10/1997 RPPMH.
VA Overall AU Category: 5A	Impairment	0.14 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776 1998 2010	VAP-E22E-01 <p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.</p> <p>In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.</p> <p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>
Open-Water Aquatic Life	Oxygen, Dissolved	01776 1998 2010	VAP-E22E-01 <p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.</p> <p>In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.</p> <p>Sources: Agriculture</p>

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Assessment
Unit ID

Waterbody Name

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Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name:

Rappahannock River Mesohaline Embayments

TMDL Group ID:

01776

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_RPP07A02	Rappahannock River	LANCASTER CO	As delineated in VDH-DSS SFC 053A, 9/16/1993 RPPMH.
VA Overall AU Category: 5A	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	1998 2010 VAP-E22E-01
<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.</p> <p>In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.</p>			
<p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>			

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Assessment Unit ID	Waterbody Name	City / County			Assessment Unit Description
Rappahannock River Basin					
TMDL Watershed Name:		Rappahannock River Mesohaline Embayments			
TMDL Group ID:		01776			
Deep-Water Aquatic Life	Oxygen, Dissolved	01776	1998	2010	VAP-E22E-01
<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria.</p> <p>In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.</p>					
<p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>					
Open-Water Aquatic Life	Oxygen, Dissolved	01776	1998	2010	VAP-E22E-01
<p>The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.</p> <p>The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.</p> <p>In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.</p>					
<p>Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat</p>					

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776	Sources: Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
VAP-E26E_STE01A98	Sturgeon Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 104. Sq. mileage adjusted in 2006, although area did not change RPPMH
VA Overall AU Category: 5A	Impairment	0.09 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Aquatic Life	Oxygen, Dissolved	01776	2006
			2010
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture	
		Atmospheric Deposition - Nitrogen	
		Industrial Point Source Discharge	
		Internal Nutrient Recycling	
		Loss of Riparian Habitat	
		Municipal Point Source Discharges	
		Sources Outside State Jurisdiction or Borders	
		Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006
			2010
			VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture	
		Atmospheric Deposition - Nitrogen	
		Industrial Point Source Discharge	
		Internal Nutrient Recycling	
		Loss of Riparian Habitat	
		Municipal Point Source Discharges	
		Sources Outside State Jurisdiction or Borders	
		Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_WHS01B00	Whiting Creek	MIDDLESEX CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 051C, 9/10/1997</p> <p>AU name fixed and sq. mileage adjusted in 2006, although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5D	Impairment	0.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	<ul style="list-style-type: none"> Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	<ul style="list-style-type: none"> Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_XEV01A02	Windmill Point Yacht Harbor	LANCASTER CO	As delineated in VDH-DSS SFC 018-053B, 9/16/1993 AU name corrected in 2006 (prev. RPP07B02) RPPMH
VA Overall AU Category: 5A	Impairment	0.01 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	01776		
VAP-E26E_ZZZ01A00	Unsegmented estuaries in E26	LANCASTER CO MIDDLESEX CO	Unsegmented portion of watershed
VA Overall AU Category:	5A		RPPMH
Use	Impairment	1.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Open-Water Aquatic Life	Oxygen, Dissolved	01776	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E22E_RPP05A02	Rappahannock River	ESSEX CO RICHMOND CO	The oligohaline/mesohaline boundary at river mile 48.51 downstream to the upstream limit of VDH shellfish condemnation area 068A in E23. 2006: incorporates old segments VAP-E22E_RPP06A02 & VAP-E23E_RPP01A00 & extended RPPMH
VA Overall AU Category: 5A	Impairment	6.95 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E22E_ZZZ02A06	Unsegmented estuaries in E22	ESSEX CO WESTMORELAND CO	Unsegmented portion of watershed. RPPMH
VA Overall AU Category: 5A	Impairment	0.04 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
			TMDL Schedule
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006
			2010
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources:	Agriculture
			Atmospheric Deposition - Nitrogen
			Clean Sediments
			Industrial Point Source Discharge
			Internal Nutrient Recycling
			Loss of Riparian Habitat
			Municipal Point Source Discharges
			Sediment Resuspension (Clean Sediment)
			Sources Outside State Jurisdiction or Borders
			Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water	Aquatic Plants (Macrophytes)	10071	2006
Submerged Aquatic			2010
Vegetation			VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources:	Agriculture
			Atmospheric Deposition - Nitrogen
			Clean Sediments
			Industrial Point Source Discharge
			Internal Nutrient Recycling
			Loss of Riparian Habitat
			Municipal Point Source Discharges
			Sediment Resuspension (Clean Sediment)
			Sources Outside State Jurisdiction or Borders
			Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E23E_CAT01A02	Cat Point Creek	RICHMOND CO	The tidal portion of Cat Point Creek.
			RPPMH
VA Overall AU Category: 5A	Impairment	1.43 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E23E_HOK01A98	Hoskins Creek	ESSEX CO	Hoskins Creek from the Town of Tappahannock STP downstream to the mouth at the Rappahannock River. RPPMH
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E23E_LIE01A98	Little Carter Creek, Jugs Creek	RICHMOND CO	The segment boundaries are defined in VDH shellfish condemnation 068B, 3/6/2002. RPPMH
VA Overall AU Category: 5A	Impairment	0.32 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E23E_PIS02A00	Piscataway Creek	ESSEX CO	The estuarine portion of Piscataway Creek.
			RPPMH
VA Overall AU Category: 5A	Impairment	0.71 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E23E_RPP02A98	Rappahannock River	ESSEX CO RICHMOND CO	Mainstem Rappahannock as described in VDH shellfish condemnation 068A, 3/26/2004. Segment extended in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	5.48 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. The mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen.
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E23E_RPP03A00	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River from the VDH shellfish condemnation 068A downstream to Sharps/0.7mi DS of Mark Haven Beach. Incorporates previous segment VAP-E24E_RPP01A98 and extended. RPPMH
VA Overall AU Category: 5A	Impairment	20.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E23E_ZZZ01A00	Unsegmented estuaries in E23	ESSEX CO RICHMOND CO	Unsegmented portion RPPMH
VA Overall AU Category: 5A	Impairment	0.00 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E23E_ZZZ01A06	Unsegmented estuaries in E23	ESSEX CO RICHMOND CO	Unsegmented portion within 068B & 068C, 3/26/2004 RPPMH
VA Overall AU Category: 5A	Impairment	0.21 SQUARE MILES	TMDL Group ID
Use		First Listed on 303(d)	TMDL Schedule
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006
			2010
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources:	Agriculture
			Atmospheric Deposition - Nitrogen
			Clean Sediments
			Industrial Point Source Discharge
			Internal Nutrient Recycling
			Loss of Riparian Habitat
			Municipal Point Source Discharges
			Sediment Resuspension (Clean Sediment)
			Sources Outside State Jurisdiction or Borders
			Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water	Aquatic Plants (Macrophytes)	10071	2006
Submerged Aquatic			2010
Vegetation			VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources:	Agriculture
			Atmospheric Deposition - Nitrogen
			Clean Sediments
			Industrial Point Source Discharge
			Internal Nutrient Recycling
			Loss of Riparian Habitat
			Municipal Point Source Discharges
			Sediment Resuspension (Clean Sediment)
			Sources Outside State Jurisdiction or Borders
			Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E23E_ZZZ02A06	Unsegmented estuaries in E23	ESSEX CO RICHMOND CO	Unsegmented portion within SFC 068A, 3/26/2004 RPPMH
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
			TMDL Schedule
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006
			2010
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources:	Agriculture
			Atmospheric Deposition - Nitrogen
			Clean Sediments
			Industrial Point Source Discharge
			Internal Nutrient Recycling
			Loss of Riparian Habitat
			Municipal Point Source Discharges
			Sediment Resuspension (Clean Sediment)
			Sources Outside State Jurisdiction or Borders
			Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water	Aquatic Plants (Macrophytes)	10071	2006
Submerged Aquatic			2010
Vegetation			VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources:	Agriculture
			Atmospheric Deposition - Nitrogen
			Clean Sediments
			Industrial Point Source Discharge
			Internal Nutrient Recycling
			Loss of Riparian Habitat
			Municipal Point Source Discharges
			Sediment Resuspension (Clean Sediment)
			Sources Outside State Jurisdiction or Borders
			Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E24E_RIC01A04	Richardson Creek	RICHMOND CO	Tidal limit to mouth (within SFC 025-071A, 12/22/2004) RPPMH
VA Overall AU Category: 5A	Impairment	0.15 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E24E_RPP01B98	Garrett's Marina	ESSEX CO	The segment boundaries are delineated in VDH shellfish condemnation 181A, 11/6/1995. RPPMH
VA Overall AU Category: 5A	Impairment	0.00 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E24E_RPP01C06	Rappahannock River	RICHMOND CO	The Rappahannock River within the VDH shellfish condemnation 025-071A, 12/22/2004 RPPMH
VA Overall AU Category: 5A	Impairment	0.16 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E24E_RPP02B06	Rappahannock River	ESSEX CO RICHMOND CO	The Rappahannock River as described in VDH SFC 028-M271, 4/1/1995 RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:		Rappahannock River Mesohaline Embayments	
TMDL Group ID:		10071	
VAP-E24E_TOT01A00	Totuskey Creek	RICHMOND CO	<p>The segment boundary is delineated in VDH condemnation 071B, 12/22/2004.</p> <p>Sq. mileage adjusted in 2006, although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.36 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
		<p>Sources: Agriculture</p> <p>Atmospheric Deposition - Nitrogen</p> <p>Clean Sediments</p> <p>Industrial Point Source Discharge</p> <p>Internal Nutrient Recycling</p> <p>Loss of Riparian Habitat</p> <p>Municipal Point Source Discharges</p> <p>Sediment Resuspension (Clean Sediment)</p> <p>Sources Outside State Jurisdiction or Borders</p> <p>Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
		<p>Sources: Agriculture</p> <p>Atmospheric Deposition - Nitrogen</p> <p>Clean Sediments</p> <p>Industrial Point Source Discharge</p> <p>Internal Nutrient Recycling</p> <p>Loss of Riparian Habitat</p> <p>Municipal Point Source Discharges</p> <p>Sediment Resuspension (Clean Sediment)</p> <p>Sources Outside State Jurisdiction or Borders</p> <p>Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E24E_TOT02A00	Totuskey Creek	RICHMOND CO	Downstream of VDH shellfish condemnation 025-071B, 12/22/2004 (within 025-071A, 12/22/2004). RPPMH
VA Overall AU Category: 5A	Impairment	0.75 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_DEE01A04	Deep Creek	LANCASTER CO	Described in VDH shellfish condemnation 023-121B, 9/23/2004. In 2002, Deep Creek was split into 3 segments. In 2004, the condemnation was expanded and the segments were joined. Size adjusted in 2006. RPPMH
VA Overall AU Category: 5A	Impairment	0.22 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_FAM01A98	Farnham Creek	RICHMOND CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 070, 10/17/2000</p> <p>Sq. mileage adjusted in 2006 although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.41 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_GEE01A98	Greenvale Creek	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 094A, 2/5/2003. RPPMH
VA Overall AU Category: 5A	Impairment	0.08 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_GEE02A06	Greenvale Creek	LANCASTER CO	Described in VDH SFC 094B, 2/5/2003
			RPPMH
VA Overall AU Category: 5A	Impairment	0.01 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_HRY01A06	Harry George Creek	MIDDLESEX CO	Designated in VDH SFC 202B, 9/3/2003 RPPMH
VA Overall AU Category: 5A	Impairment	0.09 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_LAN01A98	Lancaster Creek	LANCASTER CO RICHMOND CO	The segment boundaries are delineated in VDH SFC 120B, 9/23/2004. Size reduced in 2006 cycle. RPPMH
VA Overall AU Category: 5A	Impairment	0.46 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_LAN02A02	Lancaster Creek	LANCASTER CO RICHMOND CO	The mouth of Lancaster Creek downstream of VDH SFC 120B, 9/23/2004, not otherwise segmented. Size increased in 2006 cycle. RPPMH
VA Overall AU Category: 5A	Impairment	1.16 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_LAN03A06	Lancaster Creek	RICHMOND CO	Described in VDH SFC 023-120M1, 9/23/2004 Size increased in 2006 cycle. RPPMH
VA Overall AU Category: 5A	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_LGG01A98	Lagrange Creek	MIDDLESEX CO	As described in VDH SFC 127, 6/11/1996. RPPMH
VA Overall AU Category: 5D	Impairment	0.60 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_LGG02A06	Lagrange Creek	MIDDLESEX CO	As described in VDH SFC 127, 2/25/2004, not otherwise segmented. RPPMH
VA Overall AU Category: 5A	Impairment	0.60 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_MAO01A00	Masons Mill Swamp	MIDDLESEX CO	Tidal Masons Mill Swamp watershed - expanded in 2006. RPPMH
VA Overall AU Category: 5A	Impairment	0.17 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_MTT01A00	Morattico Creek	RICHMOND CO	<p>The segment is delineated in VDH SFC 023-120A, 9/23/2004</p> <p>Expanded in 2006 and incorporates previous segment MTT02A00</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.33 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
		<p>Sources: Agriculture</p> <p>Atmospheric Deposition - Nitrogen</p> <p>Clean Sediments</p> <p>Industrial Point Source Discharge</p> <p>Internal Nutrient Recycling</p> <p>Loss of Riparian Habitat</p> <p>Municipal Point Source Discharges</p> <p>Sediment Resuspension (Clean Sediment)</p> <p>Sources Outside State Jurisdiction or Borders</p> <p>Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
		<p>Sources: Agriculture</p> <p>Atmospheric Deposition - Nitrogen</p> <p>Clean Sediments</p> <p>Industrial Point Source Discharge</p> <p>Internal Nutrient Recycling</p> <p>Loss of Riparian Habitat</p> <p>Municipal Point Source Discharges</p> <p>Sediment Resuspension (Clean Sediment)</p> <p>Sources Outside State Jurisdiction or Borders</p> <p>Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)</p>	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_MUB01A02	Mulberry Creek	LANCASTER CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 023-021A, 9/23/2004</p> <p>Size reduced in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.27 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_MUB02A06	Mulberry Creek	LANCASTER CO	Downstream of VDH shellfish condemnation 023-021A, 9/23/2004 Size reduced in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	0.22 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_MUC01A04	Mud Creek	MIDDLESEX CO	Described in VDH SFC 027-090A, 11/15/2004
			RPPMH
VA Overall AU Category: 5A	Impairment	0.19 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_PAY01A02	Paynes Creek	LANCASTER CO	As delineated in VDH-DSS SFC 114, 4/27/1989. RPPMH
VA Overall AU Category: 5A	Impairment	0.04 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_PRR01A02	Parrotts Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 027-090B, 11/15/2004. RPPMH
VA Overall AU Category: 5D	Impairment	0.16 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_ROS01A00	Robinson Creek	MIDDLESEX CO	Boundaries delineated in VDH shellfish condemnation 177, 5/28/1997. RPPMH
VA Overall AU Category: 5D	Impairment	0.18 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:		Rappahannock River Mesohaline Embayments	
TMDL Group ID:		10071	
VAP-E25E_ROS02A04	Robinson Creek	MIDDLESEX CO	Described in VDH Shellfish Condemnation 177, 2/25/2004, not otherwise segmented Extended in 2006 cycle RPPMH
VA Overall AU Category: 5A	Impairment	0.29 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:		Rappahannock River Mesohaline Embayments	
TMDL Group ID:		10071	
VAP-E25E_RPP01A02	Rappahannock River	ESSEX CO RICHMOND CO	The mainstem of the Rappahannock River from Sharps/0.7 mi DS of Mark Haven Beach to the WQS saltwater boundary at Buoy 11 near Morattico Size adjusted in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	12.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_RPP01C98	Rappahannock River - Mark Haven Beach	ESSEX CO	The segment boundaries are delineated in VDH shellfish condemnation 026-181B, 11/6/1996. RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.01 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_RPP02A02	Rappahannock River	LANCASTER CO MIDDLESEX CO	The mainstem of the Rappahannock River from Buoy 11 near Morattico downstream to the mouth, excluding area in SFC 051A. Multiple Rappahannock segments merged together in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	66.80 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_RPP03A06	Rappahannock River	RICHMOND CO	Described in VDH SFC 024-M192, 4/1/1995 RPPMH
VA Overall AU Category: 5A	Impairment	0.01 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_URB01A00	Urbanna Creek	MIDDLESEX CO	As described in VDH-DSS SFC 42B, 9/17/1993. Sq. mileage adjusted in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	0.22 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_URB02A00	Urbanna Creek	MIDDLESEX CO	As delineated in VDH shellfish condemnation 042A, 9/17/1993. Sq. mileage adjusted in 2006 RPPMH
VA Overall AU Category: 5D	Impairment	0.24 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_WEE01A00	Weeks Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 202, 10/8/1996. RPPMH
VA Overall AU Category: 5A	Impairment	0.12 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_WEE02A04	Weeks Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 202A, 9/3/2003, not otherwise delineated. RPPMH
VA Overall AU Category: 5A	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_XDV01A02	Beach Creek	LANCASTER CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 116A, 12/27/2004.</p> <p>Expanded in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.11 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E25E_ZZZ01A00	Unsegmented estuaries in E25	ESSEX CO RICHMOND CO	Unsegmented portion of watershed RPPMH
VA Overall AU Category: 5A	Impairment	0.24 SQUARE MILES	TMDL Group ID
Use		First Listed on 303(d)	TMDL Schedule
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006
			2010
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources:	Agriculture	
		Atmospheric Deposition - Nitrogen	
		Clean Sediments	
		Industrial Point Source Discharge	
		Internal Nutrient Recycling	
		Loss of Riparian Habitat	
		Municipal Point Source Discharges	
		Sediment Resuspension (Clean Sediment)	
		Sources Outside State Jurisdiction or Borders	
		Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water	Aquatic Plants (Macrophytes)	10071	2006
Submerged Aquatic			2010
Vegetation			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources:	Agriculture	
		Atmospheric Deposition - Nitrogen	
		Clean Sediments	
		Industrial Point Source Discharge	
		Internal Nutrient Recycling	
		Loss of Riparian Habitat	
		Municipal Point Source Discharges	
		Sediment Resuspension (Clean Sediment)	
		Sources Outside State Jurisdiction or Borders	
		Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_BPC01A98	Rappahannock River: Bush Park Creek	MIDDLESEX CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 109, 4/27/1989.</p> <p>Size adjusted in 2006, although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_BRD01A00	Broad Creek	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038B, 12/30/2004. RPPMH
VA Overall AU Category: 5A	Impairment	0.08 SQUARE MILES	TMDL Group ID
Use		First Listed on 303(d)	TMDL Schedule
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010
			VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_BRD02A00	Broad Creek	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038A, 12/30/2004. RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_BRD03A00	Broad Creek	MIDDLESEX CO	<p>The boundaries are defined in VDH shellfish condemnation 033-038C, 12/30/2004.</p> <p>Sq. mileage adjusted in 2006, although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_BRD04A00	Broad Creek	MIDDLESEX CO	Described in VDH-DSS condemnation 033-038M1, 12/3/2004 Size reduced in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_CEB01A00	Eastern Branch Carter Creek	LANCASTER CO	<p>The boundaries are delineated in VDH shellfish condemnation 041A, 12/17/2004.</p> <p>Segment was expanded in 2006 cycle and now incorporates CEB02A00 (Bridge Cove), which was previously open.</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.25 SQUARE MILES	TMDL Group ID
Use		First Listed on 303(d)	TMDL Schedule
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006
		2010	Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006
		2010	VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_CTR01A00	Carter Creek	LANCASTER CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 041D, 12/17/2004.</p> <p>Size adjusted in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_CTR02A00	Carter Creek	LANCASTER CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 041B, 12/17/2004.</p> <p>Size adjusted in 2006</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_CTR03A00	Carter Creek, Eastern Branch Carter Creek	LANCASTER CO	As described in VDH-DSS SFC 020-041M1, 12/17/2006 Segment was shortened in 2006 cycle. RPPMH
VA Overall AU Category: 5A	Impairment	0.36 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_CTR04A02	Carter Cove	LANCASTER CO	As described in VDH-DSS SFC 020-041C, 12/17/2004
			RPPMH
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_LOL01A02	Locklies Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 102A, 2/6/2004. RPPMH
VA Overall AU Category: 5A	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_LOL02A06	Locklies Creek	MIDDLESEX CO	Described in VDH-DSS SFC 031-102B, 2/6/2004
			RPPMH
VA Overall AU Category: 5A	Impairment	0.09 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_MEA01A00	Meachim Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 179A, 11/17/2004. Expanded in 2006 RPPMH
VA Overall AU Category: 5D	Impairment	0.08 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the Submerged Aquatic Vegetation acreage criteria during the 2006 cycle.
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_MEA01A06	Meachim Creek	MIDDLESEX CO	Described in VDH SFC 030-179A, 12/9/1996, not otherwise segmented. RPPMH
VA Overall AU Category: 5D	Impairment	0.05 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_MEA01B00	Meachim Creek	MIDDLESEX CO	The segment is delineated in VDH shellfish condemnation 179B, 11/17/2004. RPPMH
VA Overall AU Category: 5D	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_MEA01C06	Meachim Creek	MIDDLESEX CO	Described in VDH SFC 030-179M1, 11/17/2004. RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_MEA02A00	Meachim Creek	MIDDLESEX CO	Downstream of VDH SFC 030-179A, 11/17/2004, not otherwise segmented. RPPMH
VA Overall AU Category: 5A	Impairment	0.14 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_MLL01A98	Mill Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 103, 12/10/1991 RPPMH.
VA Overall AU Category: 5A	Impairment	0.12 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_MLL02A06	Mill Creek	MIDDLESEX CO	Downstream of VDH shellfish condemnation 103, 12/10/1991 RPPMH.
VA Overall AU Category: 5A	Impairment	0.36 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_MOS01A00	Mosquito Creek	LANCASTER CO	The boundaries are delineated in VDH shellfish condemnation 203, 11/6/2003. Expanded in 2006 cycle RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_RPP02A00	Rappahannock River	MIDDLESEX CO	<p>The Rappahannock River in the area delineated in VDH shellfish condemnation 051A.</p> <p>Size corrected in 2006 cycle.</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.13 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_RPP03A00	Rappahannock River	MIDDLESEX CO	The Rappahannock River in the area delineated in VDH shellfish condemnation 051D, 9/10/1997. RPPMH
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_RPP04A00	Rappahannock River	MIDDLESEX CO	VDH Shellfish Condemnation 051B, 9/10/1997 Sq. mileage adjusted in 2006, although area did not change RPPMH
VA Overall AU Category: 5A	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_RPP05A00	Rappahannock River	MIDDLESEX CO	The area delineated in VDH shellfish condemnation 051E, 9/10/1997 RPPMH.
VA Overall AU Category: 5A	Impairment	0.14 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_RPP07A02	Rappahannock River	LANCASTER CO	As delineated in VDH-DSS SFC 053A, 9/16/1993
			RPPMH.
VA Overall AU Category: 5A	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071 2006 2010	VAP-E22E-01
			The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_STE01A98	Sturgeon Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 104. Sq. mileage adjusted in 2006, although area did not change RPPMH
VA Overall AU Category: 5A	Impairment	0.09 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_WHS01B00	Whiting Creek	MIDDLESEX CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 051C, 9/10/1997</p> <p>AU name fixed and sq. mileage adjusted in 2006, although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5D	Impairment	0.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_XEV01A02	Windmill Point Yacht Harbor	LANCASTER CO	As delineated in VDH-DSS SFC 018-053B, 9/16/1993 AU name corrected in 2006 (prev. RPP07B02) RPPMH
VA Overall AU Category: 5A	Impairment	0.01 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River Mesohaline Embayments		
TMDL Group ID:	10071		
VAP-E26E_ZZZ01A00	Unsegmented estuaries in E26	LANCASTER CO MIDDLESEX CO	Unsegmented portion of watershed
VA Overall AU Category:	5A		RPPMH
Use	Impairment	1.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	10071	2006 2010 VAP-E22E-01
			The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River, Beach Creek		
TMDL Group ID:	01067		
VAP-E25E_XDV01A02	Beach Creek	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 116A, 12/27/2004. Expanded in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	0.11 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01067	1998 2010 VAP-E25E-14 VDH shellfish condemnation 116A, 12/27/2004 Expanded in 2006
Sources: Source Unknown			
TMDL Watershed Name:	Rappahannock River, Bush Park Creek		
TMDL Group ID:	01070		
VAP-E26E_BPC01A98	Rappahannock River: Bush Park Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 109, 4/27/1989. Size adjusted in 2006, although area did not change RPPMH
VA Overall AU Category: 5A	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01070	1998 2010 VAP-E26E-10 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River, Garrett's Marina		
TMDL Group ID:	01050		
VAP-E24E_RPP01B98	Garrett's Marina	ESSEX CO	The segment boundaries are delineated in VDH shellfish condemnation 181A, 11/6/1995. RPPMH
VA Overall AU Category: 5A	Impairment	0.00 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01050 1998 2010	VAP-E24E-03 VDH shellfish condemnation 181A, 11/6/1995
Sources: Marina/Boating Sanitary On-vessel Discharges Source Unknown			
Rappahannock River, Mark Haven Beach			
TMDL Watershed Name:	Rappahannock River, Mark Haven Beach		
TMDL Group ID:	01065		
VAP-E25E_RPP01C98	Rappahannock River - Mark Haven Beach	ESSEX CO	The segment boundaries are delineated in VDH shellfish condemnation 026-181B, 11/6/1996. RPPMH
VA Overall AU Category: 5A	Impairment	0.01 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01065 1998 2010	VAP-E24E-04 VDH-DSS Shellfish Condemnation 026-181B, 11/6/1995
Sources: Source Unknown			
Rappahannock River, Sturgeon Creek			
TMDL Watershed Name:	Rappahannock River, Sturgeon Creek		
TMDL Group ID:	01093		
VAP-E26E_STE01A98	Sturgeon Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 104. Sq. mileage adjusted in 2006, although area did not change RPPMH
VA Overall AU Category: 5A	Impairment	0.09 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01093 1998 2010	VAP-E26E-12 VDH shellfish condemnation 104, 11/28/1994
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River, Tidal Fresh		
TMDL Group ID:	00317		
VAN-E01R_RPP02A00	Rappahannock River	FAUQUIER CO RAPPAHANNOCK CO	Segment begins at the confluence with the Jordan River, at rivermile 175.58, and continues downstream until the confluence with an unnamed tributary to the Rappahannock River, at rivermile 173.41.
VA Overall AU Category: 5A	Impairment	2.17 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Escherichia coli	00317	2006 2010 Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 14 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (3-RPP175.51) at the Route 647 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for fecal coliform bacteria impairment.
Sources: Source Unknown			
TMDL Group ID:	00322		
VAN-E20E_RPP01A02	Rappahannock River	SPOTSYLVANIA CO STAFFORD CO	Segment begins at the confluence with Massaponax Creek and continues downstream until the outlet of waterbody VAN-E20E. This segment represents the upper reach of VAN-E21E_RPP05A02. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	0.19 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Escherichia coli	00322	2006 2010 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 13 samples - 15.4%) were recorded at DEQ's Chesapeake Bay/ambient station (3-RPP098.81) at Buoy 112 to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.
Sources: Source Unknown			
VAN-E20E_RPP02A02	Rappahannock River	SPOTSYLVANIA CO STAFFORD CO	Segment begins at the confluence with Deep Run and continues downstream until the confluence with Massaponax Creek. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	0.23 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Escherichia coli	00322	2006 2010 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 7 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (8-RPP104.47) one hundred yards below the Massaponax Wastewater Treatment Facility to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform impairment, beginning in 2002.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River, Tidal Fresh		
TMDL Group ID:	00322		
VAN-E20E_RPP03A02	Rappahannock River	FREDERICKSBURG CITY STAFFORD CO	Segment begins at the fall line at Route One and continues downstream until the confluence with Deep Run. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A Use	Impairment	0.21 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00322	2006 2010 Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 11 samples - 45.4%) were recorded at DEQ's ambient water quality monitoring station (3-RPP1110.57) at the Route One bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown	
Recreation	Fecal Coliform	00322	2002 2010 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 16 samples - 18.8% and 6 of 13 samples - 46.2%, respectively) were recorded at DEQ's ambient water quality monitoring station (3-RPP107.91) one hundred yards below the Fredericksburg Wastewater Treatment Facility and DEQ's ambient water quality monitoring station (8-RPP110.57) at the Route One bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown	
VAN-E21E_RPP03A02	Rappahannock River	CAROLINE CO KING GEORGE CO	Segment begins at the confluence with Mount Creek and continues downstream until the confluence with Mill Creek. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A Use	Impairment	1.36 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00322	2006 2010 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 14 samples - 14.3%) were recorded at DEQ's ambient water quality monitoring station (3-RPP080.19) at the Route 301 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.
		Sources: Source Unknown	
VAN-E21E_RPP04A02	Rappahannock River	CAROLINE CO KING GEORGE CO	Segment begins at the confluence with Ware Creek and continues downstream until the confluence with Mount Creek. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A Use	Impairment	1.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00322	2006 2010 Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 13 samples - 23.1%) were recorded at DEQ's ambient water quality and Chesapeake Bay monitoring station (3-RPP091.55) at buoy 89 to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River, Tidal Fresh		
TMDL Group ID:	00322		
VAN-E21E_RPP05A02	Rappahannock River	CAROLINE CO STAFFORD CO	Segment begins at the confluence with Massaponax Creek and continues downstream until the confluence with Ware Creek. The upper reach of this segment (approx. 0.3 sq mi) extends into waterbody VAN-E20E. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	0.57 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Escherichia coli	00322	2006 2010 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 13 samples - 15.4%) were recorded at DEQ's ambient water quality and Chesapeake Bay monitoring station (8-RPP098.81) at buoy 112 to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.
Sources: Source Unknown			
TMDL Group ID:	00838		
VAN-E08R_RPP02A02	Rappahannock River	CULPEPER CO FAUQUIER CO	Segment begins at the confluence with Ruffans Run and continues downstream until the confluence with Tinpot Run.
VA Overall AU Category: 5A	Impairment	2.02 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Escherichia coli	00838	2006 2016 Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 13 samples - 38.5%) were recorded at DEQ's ambient water quality monitoring station (3-RPP0147.10) at the Route 15/29 Business bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed, beginning in 2004, for fecal coliform bacteria impairment.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River, Tidal Fresh		
TMDL Group ID:	60075		
VAN-E02R_RPP01A02	Rappahannock River	CULPEPER CO FAUQUIER CO	Segment begins at the confluence with Great Run, at rivermile 154.9, and continues downstream until the confluence with the Hazel River, at rivermile 147.52.
VA Overall AU Category: 5A	Impairment	6.84 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60075	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (6 of 10 samples - 60.0%) were recorded at DEQ's ambient water quality monitoring station (3-RPP150.32) at the Route 651 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown	
Recreation	Fecal Coliform	60075	2006 2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (5 of 10 samples - 50.0%) were recorded at DEQ's ambient water quality monitoring station (3-RPP150.32) at the Route 651 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown	
TMDL Group ID:	60081		
VAN-E08R_RPP01A02	Rappahannock River	CULPEPER CO FAUQUIER CO	Segment begins at the confluence with an unnamed tributary to the Rappahannock River, at approximately rivermile 142.5, and continues downstream until the confluence with Marsh Run.
VA Overall AU Category: 5A	Impairment	2.85 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60081	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 7 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (3-RPP142.36) at the Route 620 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River, Tidal Fresh		
TMDL Group ID:	60138		
VAN-E20E_RPP01A02	Rappahannock River	SPOTSYLVANIA CO STAFFORD CO	Segment begins at the confluence with Massaponax Creek and continues downstream until the outlet of waterbody VAN-E20E. This segment represents the upper reach of VAN-E21E_RPP05A02. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	0.19 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60138	2004 2016 The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing.
Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded in two species of fish samples collected in 2001 at monitoring station 3-RPP080.19 (blue catfish and gizzard shad).			
Sources: Source Unknown			
VAN-E20E_RPP02A02	Rappahannock River	SPOTSYLVANIA CO STAFFORD CO	Segment begins at the confluence with Deep Run and continues downstream until the confluence with Massaponax Creek. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	0.23 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60138	2004 2016 The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing.
Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded in three species of fish samples collected in 2001 at monitoring station 3-RPP107.33 (gizzard shad, channel catfish, and carp).			
Sources: Source Unknown			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River, Tidal Fresh		
TMDL Group ID:	60138		
VAN-E20E_RPP03A02	Rappahannock River	FREDERICKSBURG CITY STAFFORD CO	Segment begins at the fall line at Route One and continues downstream until the confluence with Deep Run. Portion of CBP segment RPPTF.
VA Overall AU Category: Use	5A		
Fish Consumption	Impairment	0.21 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
	PCB in Fish Tissue	60138	2004 2016 The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing.
			Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded in three species of fish samples collected in 2001 at monitoring station 3-RPP107.33 (gizzard shad, channel catfish, and carp). As a result, the waters were assessed not supporting of the CWA's fish consumption use goal.
Sources: Source Unknown			
VAN-E20R_CLB01A00	Claiborne Run	STAFFORD CO	Segment begins at the confluence with an unnamed tributary to Claiborne Run, approximately 0.5 rivermile upstream of the Route 1 crossing, and continues downstream until the confluence with the Rappahannock River.
VA Overall AU Category: Use	5A		
Fish Consumption	Impairment	4.89 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
	PCB in Fish Tissue	60138	2006 2018 The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected stretch extends from the Route 1 bridge crossing until the confluence with the Rappahannock River.
Sources: Source Unknown			
VAN-E20R_HAL01A00	Hazel Run	FREDERICKSBURG CITY SPOTSYLVANIA CO	Segment begins at the Route 95 crossing and continues downstream until the confluence with the Rappahannock River.
VA Overall AU Category: Use	5A		
Fish Consumption	Impairment	4.46 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
	PCB in Fish Tissue	60138	2006 2018 The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected stretch extends from the Route 95 bridge crossing until the confluence with the Rappahannock River.
Sources: Source Unknown			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River, Tidal Fresh		
TMDL Group ID:	60138		
VAN-E21E_RPP01A02	Rappahannock River	CAROLINE CO KING GEORGE CO	Segment begins at the confluence with Mill Creek, at rivermile 78.94, and continues downstream until immediately upstream of Devils Elbow, at rivermile 70.52. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	4.50 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Fish Consumption	PCB in Fish Tissue	60138	2006
			2018
			The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing.
Sources: Source Unknown			
VAN-E21E_RPP03A02	Rappahannock River	CAROLINE CO KING GEORGE CO	Segment begins at the confluence with Mount Creek and continues downstream until the confluence with Mill Creek. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A	Impairment	1.36 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Fish Consumption	PCB in Fish Tissue	60138	2004
			2016
			The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing.
			Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded in two species of fish samples collected in 2001 at monitoring station 3-RPP080.19 (blue catfish and gizzard shad).
Sources: Source Unknown			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rappahannock River, Tidal Fresh		
TMDL Group ID:	60138		
VAN-E21E_RPP04A02	Rappahannock River	CAROLINE CO KING GEORGE CO	Segment begins at the confluence with Ware Creek and continues downstream until the confluence with Mount Creek. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A Use	Impairment	1.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60138	2004 2016 The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing. Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded in two species of fish samples collected in 2001 at monitoring station 3-RPP080.19 (blue catfish and gizzard shad).
Sources: Source Unknown			
VAN-E21E_RPP05A02	Rappahannock River	CAROLINE CO STAFFORD CO	Segment begins at the confluence with Massaponax Creek and continues downstream until the confluence with Ware Creek. The upper reach of this segment (approx. 0.3 sq mi) extends into waterbody VAN-E20E. Portion of CBP segment RPPTF.
VA Overall AU Category: 5A Use	Impairment	0.57 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60138	2004 2016 The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing. Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded in two species of fish samples collected in 2001 at monitoring station 3-RPP080.19 (blue catfish and gizzard shad).
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Richardson Creek		
TMDL Group ID:	01049		
VAP-E24E_RIC01A04	Richardson Creek	RICHMOND CO	Tidal limit to mouth (within SFC 025-071A, 12/22/2004) RPPMH
VA Overall AU Category: 5A	Impairment	0.15 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Shellfishing	Fecal Coliform	01049	1998
			2010
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E24E-06
			Portion of VDH Shellfish Condemnation 071A, 12/22/2004
			Previous condemnations included Totuskey and Richardson Creeks. In 2004, the segment was shortened and the creeks were separated. However, in 2006 the segments were both recombined under 025-071A, 12/22/2004 and extended into the Rappahannock (see VAP-E24E-06)
Sources: Source Unknown			
TMDL Watershed Name:	Robinson Creek		
TMDL Group ID:	00197		
VAP-E25E_ROS01A00	Robinson Creek	MIDDLESEX CO	Boundaries delineated in VDH shellfish condemnation 177, 5/28/1997. RPPMH
VA Overall AU Category: 5D	Impairment	0.18 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Recreation	Fecal Coliform	00197	1998
			2014
			Impairment Specific Comments and/or Impairment Specific VA Category
			Category 4A
			VAP-E25E-02
			In 2002, the segment was also assessed as not supporting the Recreation Use due to fecal coliform violations at the end of Route 680 (3-ROS001.35). The violation rate in the 2004 cycle was 4/20. There has been no additional monitoring since 2001. The fecal coliform criteria for Shellfish is more stringent, therefore the impairment is considered to be addressed by the existing shellfish TMDL (cat. 4A)
Sources: Non-Point Source			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Robinson Creek		
TMDL Group ID:	10082		
VAP-E25E_ROS02A04	Robinson Creek	MIDDLESEX CO	Described in VDH Shellfish Condemnation 177, 2/25/2004, not otherwise segmented Extended in 2006 cycle RPPMH
VA Overall AU Category: 5A	Impairment	0.29 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	10082	2006 2018 VAP-E25E-22
The upstream portion of Robinson Creek was assessed in 1998 as not supporting the Shellfish Consumption Use based on VDH-DSS Condemnation 177, 5/28/1997. The TMDL for this original portion was completed and approved by EPA on 11/15/2005. During the 2006 cycle, however, the condemnation was extended downstream. The TMDL for this segment is due in 2018.			
Sources: Non-Point Source			
TMDL Group ID:	76650		
VAP-E25E_ROS01A00	Robinson Creek	MIDDLESEX CO	Boundaries delineated in VDH shellfish condemnation 177, 5/28/1997. RPPMH
VA Overall AU Category: 5D	Impairment	0.18 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	76650	1998 2005 Category 4A
The upstream portion of Robinson Creek was assessed in 1998 as not supporting the Shellfish Consumption Use based on VDH-DSS Condemnation 177, 5/28/1997. The TMDL for this original portion was completed and approved by EPA on 11/15/2005. The segment should be classified as Cat. 4A, however the EPA TMDL ID was not available at the time of assessment.			
Sources: Non-Point Source			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Robinson River		
TMDL Group ID:	00214		
VAN-E14R_ROB01C00	Robinson River	MADISON CO	Segment begins at the confluence with the Rose River, just downstream of Route 670, and continues downstream until the crossing of Route 231, rivermile 21.58.
VA Overall AU Category: 5D	Impairment	2.92 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00214 2006 2005	Sufficient exceedances of the instantaneous E.coli bacteria criterion (6 of 15 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-ROB024.06) at the Route 649 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
			A bacteria TMDL for the Robinson River watershed was submitted to the U.S. EPA and approved December 12, 2005. Nonpoint sources of fecal coliform are primarily agricultural (i.e., land-applied animal waste, manure deposited directly on pastures by livestock, and a significant fecal coliform load due to cattle directly depositing manure in streams) with a significant load applied to residential and forest land use categories. Non-agricultural anthropogenic nonpoint sources of fecal coliform loadings include straight pipes, failing septic systems, and pet waste. Wildlife contributes to fecal coliform loadings on all land uses, according to the acceptable habitat range for each species.
			Segment listed as Category 4A - Federal ID NA.
	Sources:	Grazing in Riparian or Shoreline Zones Impacts from Land Application of Wastes Livestock (Grazing or Feeding Operations) Runoff from Forest/Grassland/Parkland Sewage Discharges in Unsewered Areas Wastes from Pets Waterfowl Wildlife Other than Waterfowl	
TMDL Group ID:	00846		
VAN-E14R_ROB01C00	Robinson River	MADISON CO	Segment begins at the confluence with the Rose River, just downstream of Route 670, and continues downstream until the crossing of Route 231, rivermile 21.58.
VA Overall AU Category: 5D	Impairment	2.92 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Temperature, water	00846 2004 2016	Sufficient exceedances of the instantaneous temperature criterion (6 of 29 samples - 20.7%) were recorded at DEQ's ambient water quality monitoring station (3-ROB024.06) at the Route 649 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.
	Sources:	Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Robinson River		
TMDL Group ID:	60091		
VAN-E14R_ROB01A06	Robinson River	MADISON CO	Segment begins at the confluence with Leathers Run and continues downstream until the confluence with White Oak Run.
VA Overall AU Category: 5A	Impairment	3.45 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60091	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 21 samples - 14.3%) were recorded at DEQ's ambient water quality monitoring station (3-ROB017.24) at the Route 638 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
<i>Rose River</i>			
TMDL Watershed Name:	Rose River		
TMDL Group ID:	60113		
VAN-E14R_ROE01A02	Rose River	MADISON CO	Segment starts at rivermile 2.6, approximately 0.36 rivermile downstream from the confluence with Strother Run, and continues downstream until the confluence with the Robinson River.
VA Overall AU Category: 5A	Impairment	2.60 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Temperature, water	60113	2006 2018 Sufficient exceedances of the instantaneous temperature criterion (3 of 17 samples - 17.6%) were recorded at DEQ's ambient water quality monitoring station (3-ROE000.75) to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Rush River		
TMDL Group ID:	00833		
VAN-E05R_RUS02A02	Rush River	RAPPAHANNOCK CO	Segment begins at the confluence with an unnamed tributary to the Rush River, at rivermile 8.78, and continues downstream until the confluence with Big Branch, approximately 0.98 rivermile upstream of Route 621.
VA Overall AU Category: 5A	Impairment	4.55 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00833	2006 2014 Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 9 samples - 44.4%) were recorded at DEQ's ambient water quality monitoring station (3-RUS005.66) at the Route 683 bridge, upstream of Route 211/ 522, to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment.
Recreation	Fecal Coliform	Sources: Source Unknown 00833	2002 2014 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 18 samples - 22.2%) were recorded at DEQ's ambient water quality monitoring station (3-RUS005.66) at the Route 683 bridge, upstream of Route 211/ 522, to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was first listed for fecal coliform bacteria impairment in 2002.
		Sources: Source Unknown	
Senior Creek			
TMDL Watershed Name:	Senior Creek		
TMDL Group ID:	01092		
VAP-E26E_SEN01A00	Senior Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-132B, 3/27/2002. Size adjusted in 2006 cycle, although area did not change. CRRMH
VA Overall AU Category: 5A	Impairment	0.06 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01092	1998 2010 VAP-E26E-08 VDH shellfish condemnation 021-132B, 3/27/2002
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	South Run		
TMDL Group ID:	60077		
VAN-E02R_SUT01A04	South Run	FAUQUIER CO	Segment begins at the confluence with Tanner Branch and continues downstream until the confluence with Carter Run.
VA Overall AU Category: 5A	Impairment	3.93 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Escherichia coli	60077 2006 2018	Sufficient exceedances of the instantaneous E.coli bacteria criterion (6 of 22 samples - 27.3%) were recorded at DEQ's ambient water quality monitoring station (3-SUT002.62) at the Route 737 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			
Taylor Creek			
TMDL Watershed Name:	Taylor Creek		
TMDL Group ID:	01094		
VAP-E26E_TAY01A00	Taylor Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-205, 3/27/2002.
			Size reduced in 2004 cycle.
			CRRMH
VA Overall AU Category: 5A	Impairment	0.09 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Shellfishing	Fecal Coliform	01094 2004 2016	VAP-E26E-03
VDH shellfish condemnation 205 was rescinded in 2002 cycle and then reopened on 3/27/2002			
Sources: Source Unknown			
The Big Swamp			
TMDL Watershed Name:	The Big Swamp		
TMDL Group ID:	10106		
VAP-E23R_TBS01A06	The Big Swamp	RICHMOND CO WESTMORELAND CO	Headwaters to mouth at Cat Point Creek
VA Overall AU Category: 5C	Impairment	6.80 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Aquatic Life	Oxygen, Dissolved	10106 2006 2018	VAP-E23R-15
During the 2006 cycle, The Big Swamp was assessed as not supporting the Aquatic Life Use based on a dissolved oxygen violation rate of 2/15 at 3-TBS003.39.			
This segment is nested within VAP-E23R-01.			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Thornton River		
TMDL Group ID:	60078		
VAN-E05R_THO01A02	Thornton River	RAPPAHANNOCK CO	Segment begins at the confluence with White Walnut Run, approximately 0.8 rivermile downstream of Route 621, and continues downstream to the confluence with the Rush River.
VA Overall AU Category: 5A	Impairment	3.38 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Escherichia coli	60078	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 8 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station (3-THO014.37) at the Route 626 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. There was insufficient data to determine a fecal coliform bacteria impairment (1 of 8 samples - 12.5%).
Sources: Source Unknown			
VAN-E06R_THO02A02	Thornton River	CULPEPER CO RAPPAHANNOCK CO	Segment begins at the confluence with Mill Run, at rivermile 8.65, and continues downstream until the confluence with an unnamed tributary to the Thornton River, at rivermile 3.25.
VA Overall AU Category: 5A	Impairment	5.40 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Escherichia coli	60078	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 10 samples - 20.0%) were recorded at DEQ's ambient water quality monitoring station (3-THO006.50) at the Route 729 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Totuskey Creek		
TMDL Group ID:	01030		
VAP-E24E_TOT01A00	Totuskey Creek	RICHMOND CO	<p>The segment boundary is delineated in VDH condemnation 071B, 12/22/2004.</p> <p>Sq. mileage adjusted in 2006, although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.36 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01030	2004 2016 VAP-E24E-02
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
Wildlife	Chloride	01030	2004 2016 VAP-E24E-02
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
VAP-E24E_TOT02A00	Totuskey Creek	RICHMOND CO	<p>Downstream of VDH shellfish condemnation 025-071B, 12/22/2004 (within 025-071A, 12/22/2004).</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.75 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01030	2004 2016 VAP-E24E-02
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
Wildlife	Chloride	01030	2004 2016 VAP-E24E-02
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Totuskey Creek		
TMDL Group ID:	01051		
VAP-E24E_TOT01A00	Totuskey Creek	RICHMOND CO	<p>The segment boundary is delineated in VDH condemnation 071B, 12/22/2004.</p> <p>Sq. mileage adjusted in 2006, although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5A	Impairment	0.36 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Enterococcus		01051 2006 2014 VAP-E24E-02
		Sources: Municipal Point Source Discharges Source Unknown	Totuskey Creek was previously assessed as not supporting the Recreation Use because of fecal coliform violations at the Route 3 bridge (3-TOT005.11). During the 2006 cycle, the segment remained impaired for fecal coliform with a violation rate of 3/21. In addition, enterococci was added as an impairment with a violation rate of 3/9. The bacteria TMDL is due in 2014.
Recreation	Fecal Coliform		01051 2002 2014 VAP-E24E-02
		Sources: Municipal Point Source Discharges Source Unknown	Totuskey Creek was previously assessed as not supporting the Recreation Use because of fecal coliform violations at the Route 3 bridge (3-TOT005.11). During the 2006 cycle, the segment remained impaired for fecal coliform with a violation rate of 3/21. In addition, enterococci was added as an impairment with a violation rate of 3/9. The bacteria TMDL is due in 2014.

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Totuskey Creek		
TMDL Group ID:	01051		
VAP-E24E_TOT02A00	Totuskey Creek	RICHMOND CO	Downstream of VDH shellfish condemnation 025-071B, 12/22/2004 (within 025-071A, 12/22/2004). RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.75 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Enterococcus		01051 2006 2010 VAP-E24E-02 Totuskey Creek was previously assessed as not supporting the Recreation Use because of fecal coliform violations at the Route 3 bridge (3-TOT005.11). During the 2006 cycle, the segment remained impaired for fecal coliform with a violation rate of 3/21. In addition, enterococci was added as an impairment with a violation rate of 3/9. The bacteria TMDL is due in 2014.
		Sources: Municipal Point Source Discharges Source Unknown	
Recreation	Fecal Coliform		01051 1998 2014 VAP-E24E-02 Totuskey Creek was previously assessed as not supporting the Recreation Use because of fecal coliform violations at the Route 3 bridge (3-TOT005.11). During the 2006 cycle, the segment remained impaired for fecal coliform with a violation rate of 3/21. In addition, enterococci was added as an impairment with a violation rate of 3/9. The bacteria TMDL is due in 2014.
		Sources: Municipal Point Source Discharges Source Unknown	
TMDL Group ID:	10074		
VAP-E24E_TOT01A00	Totuskey Creek	RICHMOND CO	The segment boundary is delineated in VDH condemnation 071B, 12/22/2004. Sq. mileage adjusted in 2006, although area did not change RPPMH
VA Overall AU Category: 5A			
Use	Impairment	0.36 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Sediment Bioassays for Estuarine and Marine Water		10074 2006 2018 VAP-E24E-02 During the 2006 cycle, estuarine probabilistic monitoring was conducted through the Coastal 2000 program at 3-TOT007.84 and 3-TOT004.92. The data was assessed by CO through the Weight of Evidence approach. Although both stations showed benthic alteration, the alteration at station 3-TOT007.84 was assessed as Category 5A for toxics. The TMDL is due in 2018.
		Sources: Source Unknown	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:		Totuskey Creek	
TMDL Group ID:		10074	
VAP-E24E_TOT02A00	Totuskey Creek	RICHMOND CO	Downstream of VDH shellfish condemnation 025-071B, 12/22/2004 (within 025-071A, 12/22/2004). RPPMH
VA Overall AU Category: 5A	Use	Impairment	0.75 SQUARE MILES
Aquatic Life	Sediment Bioassays for Estuarine and Marine Water	TMDL Group ID	First Listed on 303(d)
		10074	2006
		TMDL Schedule	2018
		Impairment Specific Comments and/or Impairment Specific VA Category	
		VAP-E24E-02	
		During the 2006 cycle, estuarine probabilistic monitoring was conducted through the Coastal 2000 program at 3-TOT007.84 and 3-TOT004.92. The data was assessed by CO through the Weight of Evidence approach. Although both stations showed benthic alteration, the alteration at station 3-TOT007.84 was assessed as Category 5A for toxics. The TMDL is due in 2018.	
Sources: Source Unknown			
TMDL Group ID:		10107	
VAP-E24R_TOT01A06	Totuskey Creek	RICHMOND CO	The nontidal portion of Totuskey Creek
VA Overall AU Category: 5A	Use	Impairment	8.46 MILES
Recreation	Escherichia coli	TMDL Group ID	First Listed on 303(d)
		10107	2006
		TMDL Schedule	2018
		Impairment Specific Comments and/or Impairment Specific VA Category	
		VAP-E24R-02	
		During the 2006 cycle, the nontidal portion of Totuskey Creek was assessed as not supporting the Recreation Use due to an E. coli violation rate of 2/9 at 3-TOT009.95. Further monitoring is recommended.	
Sources: Source Unknown			
TMDL Watershed Name:		Town Creek	
TMDL Group ID:		01095	
VAP-E26E_TON01A00	Town Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 187A, 3/27/2002. Size adjusted in 2006, although area did not change CRRMH
VA Overall AU Category: 5A	Use	Impairment	0.02 SQUARE MILES
Shellfishing	Fecal Coliform	TMDL Group ID	First Listed on 303(d)
		01095	2002
		TMDL Schedule	2014
		Impairment Specific Comments and/or Impairment Specific VA Category	
		VAP-E26E-07	
		VDH shellfish condemnation 187A, 3/27/2002	
Sources: Source Unknown			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Urbanna Creek		
TMDL Group ID:	00198		
VAP-E25E_URB02A00	Urbanna Creek	MIDDLESEX CO	As delineated in VDH shellfish condemnation 042A, 9/17/1993. Sq. mileage adjusted in 2006 RPPMH
VA Overall AU Category: 5D	Impairment	0.24 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Shellfishing	Fecal Coliform	00198	1998
			2005
			Impairment Specific Comments and/or Impairment Specific VA Category
			Category 4A
			VAP-E25E-04
			The segment is assessed as impaired of the Shellfish Consumption Use based on VDH-DSS Shellfish Condemnation 042A, 9/17/1993. The TMDL was completed and approved by EPA on 11/15/2005 and the segment should be assessed as Cat. 4A.
		Sources: Municipal Point Source Discharges Non-Point Source	
TMDL Group ID:	01785		
VAP-E25E_URB01A00	Urbanna Creek	MIDDLESEX CO	As described in VDH-DSS SFC 42B, 9/17/1993. Sq. mileage adjusted in 2006 RPPMH
VA Overall AU Category: 5A	Impairment	0.22 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Recreation	Fecal Coliform	01785	2004
			2016
			Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-E25E-19
			The segment was assessed in 2004 as not supporting of the Recreation Use based on a fecal coliform violation rate of 3/20 at 3-URB001.50, located at the end of Route 418. There has been no additional monitoring at this station since 2001; therefore, although the violation rate was 0/8 during the 2006 assessment window, the segment must remain listed until further data can be collected.
		Sources: Source Unknown	

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Ware Creek		
TMDL Group ID:	00852		
VAN-E21R_WAE01A04	Ware Creek	CAROLINE CO	Segment begins at the headwaters of Ware Creek and continues downstream until the confluence with an unnamed tributary to Ware Creek, just downstream from Burma Road.
VA Overall AU Category: 5C	Impairment	2.94 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	pH	00852	2004 2016 Sufficient exceedances of the instantaneous pH criterion (2 of 2 samples - 100%) were recorded at DEQ's freshwater probabilistic monitoring station (3-WAE005.95) at the Fort A.P. Hill property to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Weeks (Mudd) Creek		
TMDL Group ID:	01066		
VAP-E25E_WEE01A00	Weeks Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 202, 10/8/1996.
			RPPMH
VA Overall AU Category: 5A	Impairment	0.12 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	01066	1998 2010 VAP-E25E-09
The segment was assessed as not supporting of the Shellfish Use during the 1998 cycle due to VDH shellfish condemnation 202, 10/8/1996. This segment is now a portion of SFC 202A, 9/3/2003. The TMDL was completed for the original 1998 segment during the 2006 cycle and approved by EPA on 11/15/2005. The segment should be categorized as Cat. 4A for Shellfish, however the EPA TMDL ID was not available at the time of assessment.			
Sources: Non-Point Source			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Weeks Creek		
TMDL Group ID:	10079		
VAP-E25E_WEE02A04	Weeks Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 202A, 9/3/2003, not otherwise delineated. RPPMH
VA Overall AU Category: 5A	Impairment	0.10 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Shellfishing	Fecal Coliform	10079	1998 2018 VAP-E25E-08
This segment is a portion of SFC 202A, 9/3/2003 during the 2006 cycle. Although a TMDL was completed for Weeks Creek and approved by EPA on 11/15/2005, it only covers the original upstream 1998 impairment.			
Sources: Non-Point Source			
TMDL Watershed Name:	Western Branch Corrotoman River, Unnamed Tributary		
TMDL Group ID:	10121		
VAP-E26R_XEY01A06	UT to Western Branch Corrotoman River	LANCASTER CO	Headwaters to mouth at Western Branch Corrotoman River
VA Overall AU Category: 5C	Impairment	3.30 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	pH	10121	2006 2018 VAP-E26R-02
During the 2006 cycle, unnamed tributary XEY was considered impaired of the Aquatic Life Use based on a pH violation rate of 3/10 at the Route 604 bridge (3-XEY001.00).			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	White Oak Run		
TMDL Group ID:	60092		
VAN-E14R_WHO01A06	White Oak Run	MADISON CO	Segment begins at the Town of Madison's raw water intake, approximately 0.4 rivermile upstream from the Route 657 crossing, and continues downstream until the confluence with the Robinson River.
VA Overall AU Category: Use	Impairment	3.42 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60092	2006 2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 5 samples - 100%) were recorded at DEQ's ambient water quality monitoring station (3-WHO003.42) at the Route 657 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources:	Grazing in Riparian or Shoreline Zones Impacts from Land Application of Wastes Livestock (Grazing or Feeding Operations) Runoff from Forest/Grassland/Parkland Sewage Discharges in Unsewered Areas Wastes from Pets Waterfowl Wildlife Other than Waterfowl	
Whitehouse Creek			
TMDL Watershed Name:	Whitehouse Creek		
TMDL Group ID:	01096		
VAP-E26E_WHR01A00	Whitehouse Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 187D, 3/27/2002
			Size adjusted in 2006, although area did not change
			CRRMH
VA Overall AU Category: Use	Impairment	0.05 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01096	1998 2010 VAP-E26E-33
	Sources:	Source Unknown	
			VDH shellfish condemnation 187D, 3/27/2002

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Whiting Creek		
TMDL Group ID:	00201		
VAP-E26E_WHS01B00	Whiting Creek	MIDDLESEX CO	<p>The segment boundaries are delineated in VDH shellfish condemnation 051C, 9/10/1997</p> <p>AU name fixed and sq. mileage adjusted in 2006, although area did not change</p> <p>RPPMH</p>
VA Overall AU Category: 5D	Impairment	0.20 SQUARE MILES	TMDL Group ID
Use			First Listed on 303(d)
Shellfishing	Fecal Coliform	00201	1998
			2005
			Category 4A
			VAP-E26E-24
			VDH shellfish condemnation 051C, 9/10/1997
			The Shellfish TMDL was completed during the 2006 cycle and approved by EPA on 11/15/2005. The segment should be considered Category 4A for Shellfish, although the EPA TMDL ID was not available at the time of assessment.
Sources: Non-Point Source			

Note: * Includes Category 4A and 4C Impairments within each Assessment Unit. Assessment Units may extend across jurisdictional boundaries.